

LBT-D390/D790/G5500/XB33/ XB44/XB50/XB60

SERVICE MANUAL

US Model

LBT-D390/D790/G5500

Canadian Model

LBT-D390/D790

AEP Model

UK Model

LBT-XB50/XB60

E Model

Australian Model

LBT-XB33/XB44

- LBT-D390/D790/G5500/XB33/XB44/XB50/XB60 are composed of following models.

As for the service manual, it is issued for each component model, then, please refer to it.

COMPONENT MODEL NAME FOR LBT-D390/D790/G5500/ XB33/XB44/XB50/XB60

	COMPACT DISC/DECK/ RECEIVER SYSTEM	SPEAKER SYSTEM
LBT-D390	HCD-D390	
LBT-D790	HCD-D790	
LBT-G5500	HCD-G5500	
LBT-XB33	HCD-XB33	SS-XB33 (except Mexican model)
LBT-XB44	HCD-XB44	SS-XB44 (except Mexican,Brazilian model)
LBT-XB50	HCD-XB50	
LBT-XB60	HCD-XB60	

SPECIFICATIONS

General

Power requirements

North American model: 120 V AC, 60 Hz

European model: 230 V AC, 50 / 60 Hz

Mexican model: 120 V AC, 50 / 60 Hz

Australian and South African models:

220 - 240 V AC, 50 / 60 Hz

Thailand model: 220 - 240 V AC, 50 / 60 Hz

Other models: 110 - 120 V or 220 - 240 V AC, 50 / 60 Hz

Adjustable with voltage selector

Power consumption

LBT-D390 / G5500 170 watts

LBT-D790 198 watts

LBT-XB50 190 watts

LBT-XB60 230 watts

LBT-XB33 240 watts

LBT-XB44 250 watts

Dimensions (w / h / d)

Approx. 355 x 425x 435 mm (14 x 16 3/4 x 17 1/4 in) incl. projecting parts and controls

Mass

LBT-D390 / G5500 Approx. 12.5 kg (27 lb 9 oz.)

LBT-D790 / XB50 / XB60 Approx. 13.0 kg (28 lb 11 oz.)

LBT-XB33 / XB44 Approx. 14.0 kg (30 lb 14 oz.)

Supplied accessories

AM loop antenna (1)

Remote RM-SD70S (1)

Size AA (R6) batteries (2)

FM wire antenna (1)

Speaker cords* (2)

* except for LBT-D390/G5500/XB33/XB50

Design and specifications are subject to change without notice.

COMPACT Hi-Fi STEREO SYSTEM



SONY®

PARTS LIST

Ref. No.	Part No.	Description	Remark
----------	----------	-------------	--------

ACCESSORIES & PACKING MATERIALS *****

1-475-115-31	COMMANDER, STANDARD (RM-SD70S)		
1-501-374-11	ANTENNA, LOOP		
1-501-659-41	ANTENNA (FM) (EXCEPT XB50, XB60)		
1-501-804-11	ANTENNA (FM) (XB50, XB60)		
1-775-512-21	CORD, SPEAKER CONNECTION		
3-862-180-11	MANUAL, INSTRUCTION (made in malaysia : except AEP) (ENGLISH)		
3-862-180-22	MANUAL, INSTRUCTION (Canadian) (FRENCH)		
3-862-180-31	MANUAL, INSTRUCTION (E, AR, MX) (FRENCH, SPANISH)		
3-862-180-51	MANUAL, INSTRUCTION (made in malaysia:AEP) (GERMAN)		
3-862-180-61	MANUAL, INSTRUCTION (made in malaysia:AEP) (DUTCH, SWEDISH, ITALIAN)		
3-862-180-71	MANUAL, INSTRUCTION (made in malaysia:AEP) (FRENCH, PORTUGUESE, SPANISH)		
3-862-180-81	MANUAL, INSTRUCTION (EE, CIS) (RUSSIAN, POLISH)		
3-862-181-11	MANUAL, INSTRUCTION (made in indonesia:AEP) (ENGLISH)		
3-862-181-21	MANUAL, INSTRUCTION (made in Indonesia:AEP) (FRENCH, SPANISH, PORTUGUESE)		
4-991-151-01	COVER, BATTERY (for RM-SD70S)		

HCD-D390/D790/G5500/ XB33/XB44/XB50/XB60


SERVICE MANUAL



Photo: HCD-XB44

- HCD-D390/D790/G5500/XB33/XB44/XB50/XB60 is the tuner, deck, CD and amplifier section in LBT-D390/D790/G5500/XB33/XB44/XB50/XB60.

US Model
HCD-D390/D790/G5500
Canadian Model
HCD-390/D790
AEP Model
UK Model
HCD-XB50/XB60
E Model
Australian Model
HCD-XB33/XB44

*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of the Dolby Laboratories Licensing Corporation.

CD Section	Model Name Using Similar Mechanism	HCD-D290/ G3300/XB3
	CD Mechanism Type	CDM37L-5BD29AL
	Base Unit Name	BU-5BD29AL
	Optical Pick-up Name	KSS-213D/Q-NP
Tape Deck Section	Model Name Using Similar Mechanism	HCD-D290/ G3300/XB3
	Tape Transport Mechanism Type	TCM-220WR2

SPECIFICATIONS

For the U.S. model

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads, both channels driven, from 70-20,000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0.9 % total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

(HCD-D390/D790/G5500)

Continuous RMS power output:

120 + 120 watts (8 ohms at 1 kHz, 10% THD)

Total harmonics distortion:

Less than 0.07% (8 ohms at 1 kHz, 50 W)

(HCD-XB50)

DIN power output (Rated): 80 + 80 watts (8 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference):

100 + 100 watts (8 ohms at 1 kHz, 10% THD)

Music power output (Reference):

170 + 170 watts (8 ohms at 1 kHz, 10% THD)

(HCD-XB60)

DIN power output (Rated):

100 + 100 watts (8 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference):

120 + 120 watts (8 ohms at 1 kHz, 10% THD)

Music power output (Reference):

210 + 210 watts (8 ohms at 1 kHz, 10% THD)

(HCD-XB33)

The following measured at AC 120/240 V, 50 Hz

DIN power output (Rated):

100 + 100 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference):

120 + 120 watts

(6 ohms at 1 kHz, 10% THD)

Peak music power output (Reference):

1,500 watts

(HCD-XB44)

The following measured at AC 120/240 V, 50 Hz

DIN power output (Rated):

120 + 120 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference):

140 + 140 watts

(6 ohms at 1 kHz, 10% THD)

Peak music power output (Reference):

2,000 watts

— Continued on next page —

COMPACT DISC DECK RECEIVER



SONY®

Inputs

PHONO IN (phono jacks):	sensitivity 3 mV, impedance 47 kilohms
MIX MIC (phone jack):	sensitivity 1 mV, impedance 10 kilohms
(HCD-D390/D790/G5500)	
VIDEO (AUDIO) IN (phono jacks):	sensitivity 250 mV, impedance 47 kilohms
(HCD-XB33/XB44/XB50/XB60)	
VIDEO/MD (AUDIO) IN (phono jacks):	sensitivity 250 mV, impedance 47 kilohms

Outputs

PHONES (stereo phone jack):	accepts headphones of 8 ohms or more
(HCD-XB33/XB44/XB50/XB60)	
VIDEO/MD (AUDIO) OUT (phono jacks):	voltage 250 mV, impedance 1 kilohm
SPEAKER:	
(HCD-D390/D790/G5500/XB50/XB60)	accepts impedance of 8 to 16 ohms
(HCD-XB33/XB44)	impedance of 6 to 16 ohms
SURROUND SPEAKER:	
(HCD-D790/XB33/XB50/XB60 only)	accepts impedance of 16 ohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda = 780\text{nm}$). Emission duration: continuous
Laser output	Max. $44.6\mu\text{W}^*$ *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Wavelength	780 – 790 nm
Frequency response	2 Hz – 20 kHz (± 0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
(HCD-XB33/XB44/XB50/XB60)	
CD DIGITAL OUT	
(square optical connector jack, rear panel)	
Wave length:	600 nm
Output level:	– 18 dBm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	60 – 13,000 Hz (± 3 dB), using a Sony TYPE I cassette
	60 – 14,000 Hz (± 3 dB), using a Sony TYPE II cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	
(2 band model)	
North American model::	87.5 - 108.0 MHz (100 kHz step)
Other models:	87.5 - 108.0 MHz (50 kHz step)
(3 band model)	87.5 - 108.0 MHz (50 kHz step)
(4 band model)	87.5 - 108.0 MHz (50 kHz step)
	65.0 - 74.0 MHz (10 kHz step) OIRT
UKV:	65.0 - 74.0 MHz (10 kHz step) POLAR STEREO
Antenna	FM wire antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
(2 band model)	
North American model:	530 – 1,710 KHz (with the tuning interval set at 10 kHz)
	531 – 1,710 KHz (with the tuning interval set at 9 kHz)
Other models:	531 – 1,602 kHz
	(with the tuning interval set at 9 kHz)
	530 – 1,710 KHz
	(with the tuning interval set at 10 kHz)
(3 band and 4 band models):	
MW:	531 – 1,602 kHz
	(with the tuning interval set at 9 kHz)
LW:	153 – 279 kHz
	(with the tuning interval set at 3 kHz)
Antenna	AM loop antenna, External antenna terminals
Intermediate frequency	450 kHz

General

Power requirements	
North American model:	120 V AC, 60 Hz
European model:	230 V AC, 50/60 Hz
Mexican model:	120 V AC, 50/60 Hz
Australian and South African models:	220 – 240 V AC, 50/60 Hz
Thailand model::	220 – 240 V AC, 50/60 Hz
Other models:	110 – 120 V or 220 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	
(HCD-D390/G5500):	170 watts
(HCD-D790):	198 watts
(HCD-XB50):	190 watts
(HCD-XB60):	230 watts
(HCD-XB33):	240 watts
(HCD-XB44):	250 watts
Dimensions (w/h/d)	Approx. 355 x 425 x 435 mm (14 x 16 ³ / ₄ x 17 ¹ / ₄ in) incl. projecting parts and controls
Mass	
(HCD-D390/G5500):	Approx. 12.5 kg (27 lb 9 oz.)
(HCD-D790/XB50/XB60):	Approx. 13.0 kg (28 lb 11 oz.)
(HCD-XB33/XB44):	Approx. 14.0 kg (30 lb 14 oz.)

Supplied accessories:	AM loop antenna (1) Remote RM-SD70S (1) Size AA (R6) batteries (2) FM wire antenna (1) Speaker cords* (2)
* except for HCD-D390/G5500/XB33/XB50	

Design and specifications are subject to change without notice.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

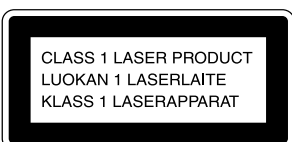
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

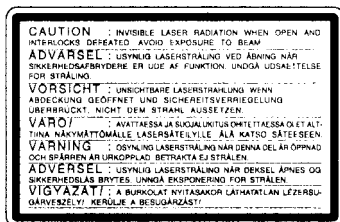
- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

The following caution label is located inside the unit.



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

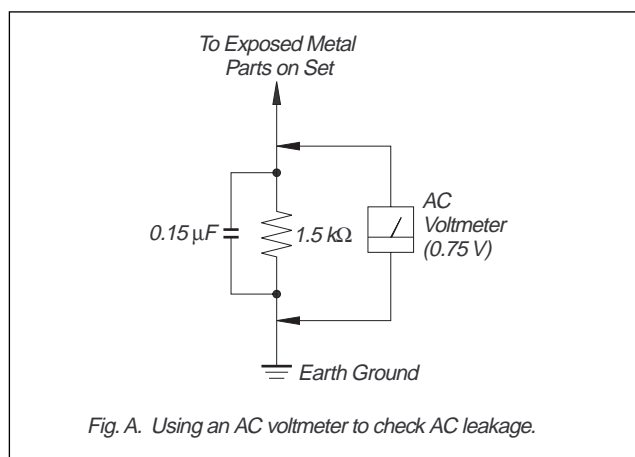
SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

TABLE OF CONTENTS

1. GENERAL	
– FRONT PANEL –	5
– BACK PANEL –	6
2. DISASSEMBLY	8
3. TEST MODE	16
4. MECHANICAL ADJUSTMENTS	18
5. ELECTRICAL ADJUSTMENTS	
DECK Section	18
Tuner Section	21
CD Section	23
6. DIAGRAMS	
6-1. Circuit Board Location	25
6-2. Block Diagrams	
– CD Section –	26
– Tuner Section – (AEP, UK model)	27
– Tuner Section – (East European, CIS model)	29
– Main Section –	31
6-3. Printed Wiring Board – BD Section –	35
6-4. Schematic Diagram – BD Section –	37
6-5. Printed Wiring Board – CD Motor Section –	39
6-6. Schematic Diagram – CD Motor Section –	41
6-7. Schematic Diagram – Tuner Section – (AEP, UK model)	43
6-8. Printed Wiring Board – Tuner Section – (AEP, UK model)	45
6-9. Printed Wiring Board – Tuner Section – (East European, CIS model)	46
6-10. Schematic Diagram – Tuner Section – (East European, CIS model)	47
6-11. Printed Wiring Board – Deck Section –	49
6-12. Schematic Diagram – Deck Section –	51
6-13. Schematic Diagram – Switch Section –	53
6-14. Printed Wiring Board – Switch Section –	55
6-15. Printed Wiring Board – Headphone-Mic Section –	56
6-16. Schematic Diagram – Headphone-Mic Section –	57
6-17. Printed Wiring Board – Panel Section –	59
6-18. Schematic Diagram – Panel Section –	61
6-19. Printed Wiring Board – Power Section –	63
6-20. Schematic Diagram – Power Section –	65
6-21. Printed Wiring Board – Main Section –	67
6-22. Schematic Diagram – Main Section (1/5) –	69
6-23. Schematic Diagram – Main Section (2/5) –	71
6-24. Schematic Diagram – Main Section (3/5) –	73
6-25. Schematic Diagram – Main Section (4/5) –	75
6-26. Schematic Diagram – Main Section (5/5) –	77
6-27. IC Block Diagrams	79
6-28. IC Pin Function Description	84
7. EXPLODED VIEWS	87
8. ELECTRICAL PARTS LIST	96

SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

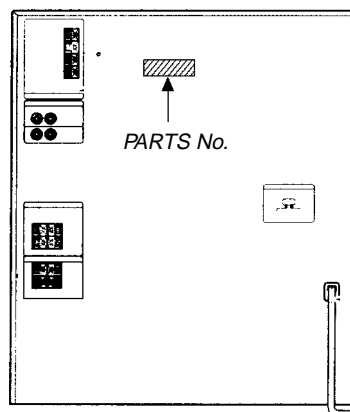
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

MODEL IDENTIFICATION

– BACK PANEL –

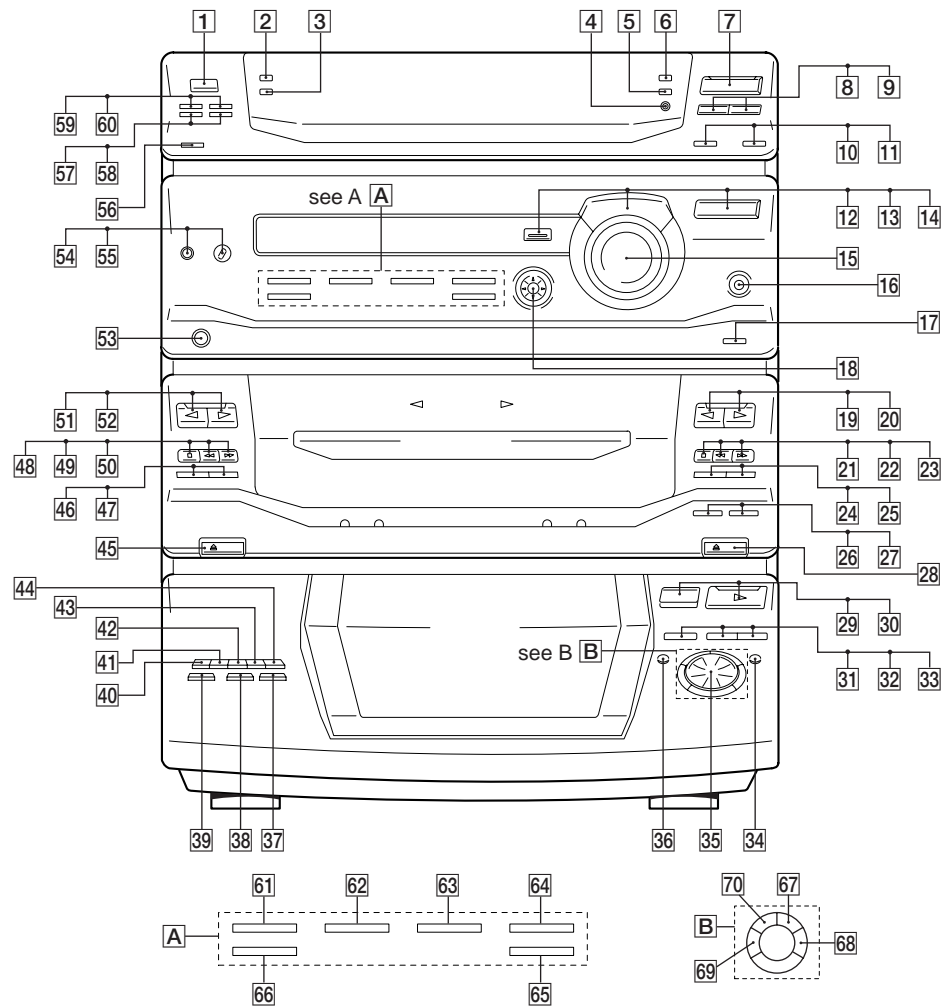


MODEL	PARTS No.
XB33:E,Argentine models	4-996-410-0□
XB33:Mexican model	4-996-410-2□
XB33:Australian model	4-996-410-3□
XB33:South African model	4-996-410-4□
D390:US model	4-996-411-0□
D390:Canadian model	4-996-411-1□
XB50:AEP,UK models	4-996-411-2□
XB50:East European,CIS models	4-996-411-3□
G5500	4-996-411-4□
XB44:E,Argentine models	4-996-412-0□
XB44:Mexican model	4-996-412-2□
XB44:Australian model	4-996-412-3□
XB44:South African model	4-996-412-4□
D790:US model	4-996-419-0□
D790:Canadian model	4-996-419-1□
XB60:AEP,UK models	4-996-419-2□
XB60:East European,CIS models	4-996-419-3□

SECTION 1

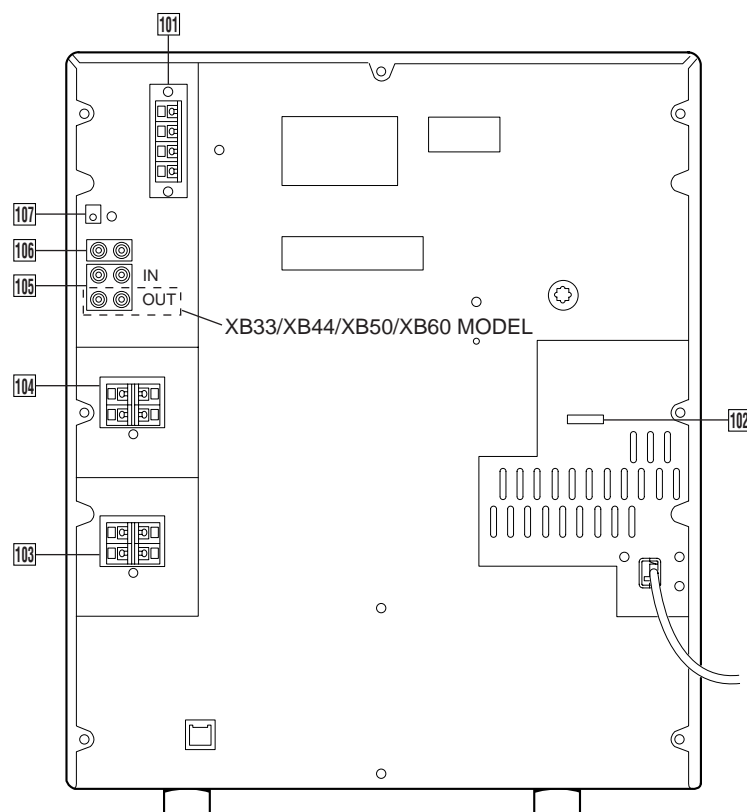
GENERAL

– FRONT PANEL –



- | | | |
|---|----------------------------|--------------------------------|
| 1 POWER button | 24 DECK B ■ (pause) button | 48 DECK A ■ (stop) button |
| 2 DISPLAY/DEMO button | 25 DECK B ● REC button | 49 DECK A ◀◀ (backward) button |
| 3 SPECTRUM ANALYZER button | 26 H SPEED DUB button | 50 DECK A ▶▶ (forward) button |
| 4 ENTER/NEXT button | 27 CD SYNC button | 51 DECK A ◀ (play) button |
| 5 TUNER MEMORY button | 28 DECK B ▲ EJECT button | 52 DECK A ▷ (play) button |
| 6 TUNING MODE button | 29 CD ▲ OPEN button | 53 PHONES jack |
| 7 TUNER/BAND button | 30 CD ▷ (play) button | 54 MIC jack |
| 8 TUNING – button | 31 DISK SKIP button | 55 MIC LEVEL knob |
| 9 TUNING + button | 32 CD ■ (pause) button | 56 SLEEP button |
| 10 PTY button (AEP, UK model) | 33 CD ■ (stop) button | 57 DAILY 1 button |
| 11 STEREO/MONO button | 34 CD ▶▶ (forward) button | 58 DAILY 2 button |
| 12 EFFECT button | 35 ◀◀ AMS ▶▶ knob | 59 ☉ / CLOCK SET button |
| 13 GROOVE button | 36 CD ◀◀ (backward) button | 60 REC button |
| 14 FUNCTION button | 37 FLASH button | 61 WAVE button |
| 15 VOLUME knob | 38 LOOP button | 62 SURROUND button |
| 16 SUPER WOOFER button | 39 NON-STOP button | 63 P FILE MEMORY button |
| 17 SUPER W MODE
(D790/XB44/XB60 model) | 40 DISC 1 button | 64 GEQ CONTROL button |
| 18 GEQ button | 41 DISC 2 button | 65 ENTER button |
| 19 DECK B ◀ (play) button | 42 DISC 3 button | 66 KARAOKE PON/MPX button |
| 20 DECK B ▷ (play) button | 43 DISC 4 button | 67 PLAY MODE button |
| 21 DECK B ■ (stop) button | 44 DISC 5 button | 68 REPEAT button |
| 22 DECK B ◀◀ (backward) button | 45 DECK A ▲ EJECT button | 69 EDIT button |
| 23 DECK B ▶▶ (forward) button | 46 DIRECTION button | 70 1/ALL DISCS button |
| | 47 DOLBY NR button | |

– BACK PANEL –

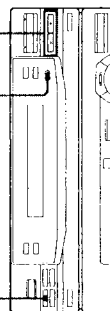


- 101** ANTENNA terminal
- 102** VOLTAGE SELECTOR switch (E, AR model)
- 103** SPEAKER terminal
- 104** SURROUND SPEAKER terminal (D790/XB33/XB50/XB60 model)
- 105** VIDEO/MD (AUDIO) jack
- 106** PHONO jack
- 107** CD DIGITAL OUT connector (XB33/XB44/XB50/XB60 model)

Step 2: Setting the time

You must set the time before using the timer functions. The clock is on a 24-hour system for the European and Brazilian models, and a 12-hour system for other models. The 24-hour system model is used for illustration purpose.

1 3,5,2,4



LBT-D390/D790/G5500/XB333/XB33K/XB44/XB44K/XB50/XB60 only

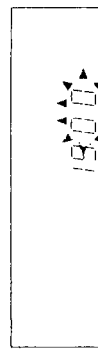
1 Press \odot /CLOCK SET.
The hour indication flashes.



2 Press TUNING +/- to set the hour.



3 Press ENTER/NEXT.
The minutes indication flashes.



4 Press TUNING +/- to set the minutes.



5 Press ENTER/NEXT.
The clock starts.

LBT-XB66/XB66K/XB660 only

1 Press \odot /CLOCK SET.
The hour indication flashes.



2 Press TUNING +/- to set the hour.



3 Press ENTER/NEXT.
The minutes indication flashes.



4 Press TUNING +/- to set the minutes.



5 Press ENTER/NEXT.
The clock starts.

Tip
If you make a mistake, start over from step 1.

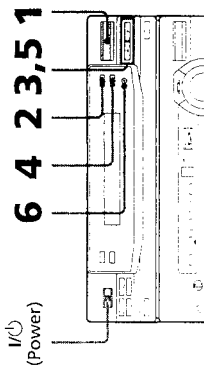
Step 3: Presetting radio stations

You can preset the following number of stations:

- 2 band model: 20 for FM and 10 for AM
- 3 band model: 20 for FM, 10 for MW, and 10 for LW
- 4 band model: 20 for FM, 10 for MW, 10 for LW, and 5 for UKV

The bands you can select depend on the kind of tuner built into your system. Confirm the bands by pressing TUNER/BAND repeatedly.

6 4 2 3,5 1



1 Press TUNER/BAND repeatedly until the band you want appears in the display.

Each time you press this button, the band changes as follows:

2 band model:

FM \leftrightarrow AM

3 band model:

FM \rightarrow MW \rightarrow LW

4 band model:

FM \rightarrow MW \rightarrow LW \rightarrow UKV*

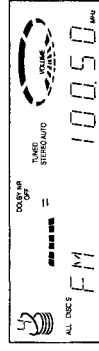
* When you select this band, "STEREO Plus" appears in the display.

2 Press TUNING MODE repeatedly until "AUTO" appears in the display.

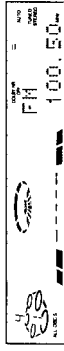
3 Press TUNING +/-.

The frequency indication changes and scanning stops when the system tunes in a station. "TUNED" and "STEREO" (for a stereo program) appear.

LBT-D390/D790/G5500/XB333/XB33K/XB44/XB44K/XB50/XB60



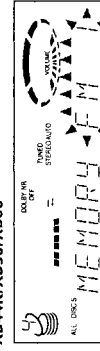
LBT-XB66/XB66K/XB660



4 Press TUNER MEMORY.

A preset number flashes in the display.

LBT-D390/D790/G5500/XB333/XB33K/XB44/XB44K/XB50/XB60

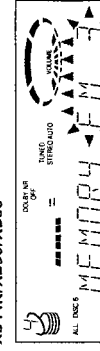


LBT-XB66/XB66K/XB660



5 Press TUNING +/- to select the preset number you want.

LBT-D390/D790/G5500/XB333/XB33K/XB44/XB44K/XB50/XB60



LBT-XB66/XB66K/XB660

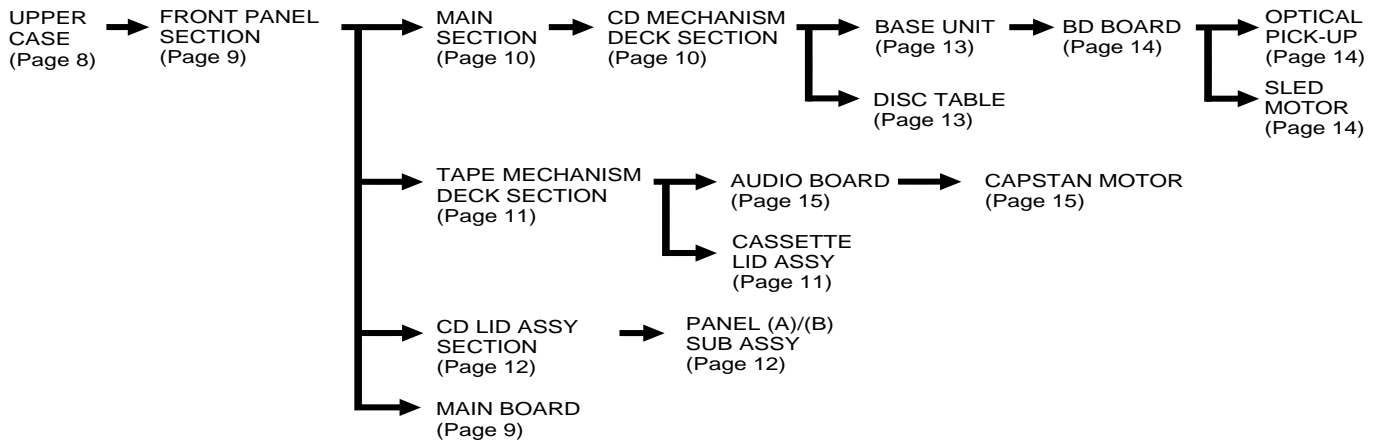


6 Press ENTER/NEXT.
The station is stored.

7 Repeat steps 1 through 6 to store other stations.

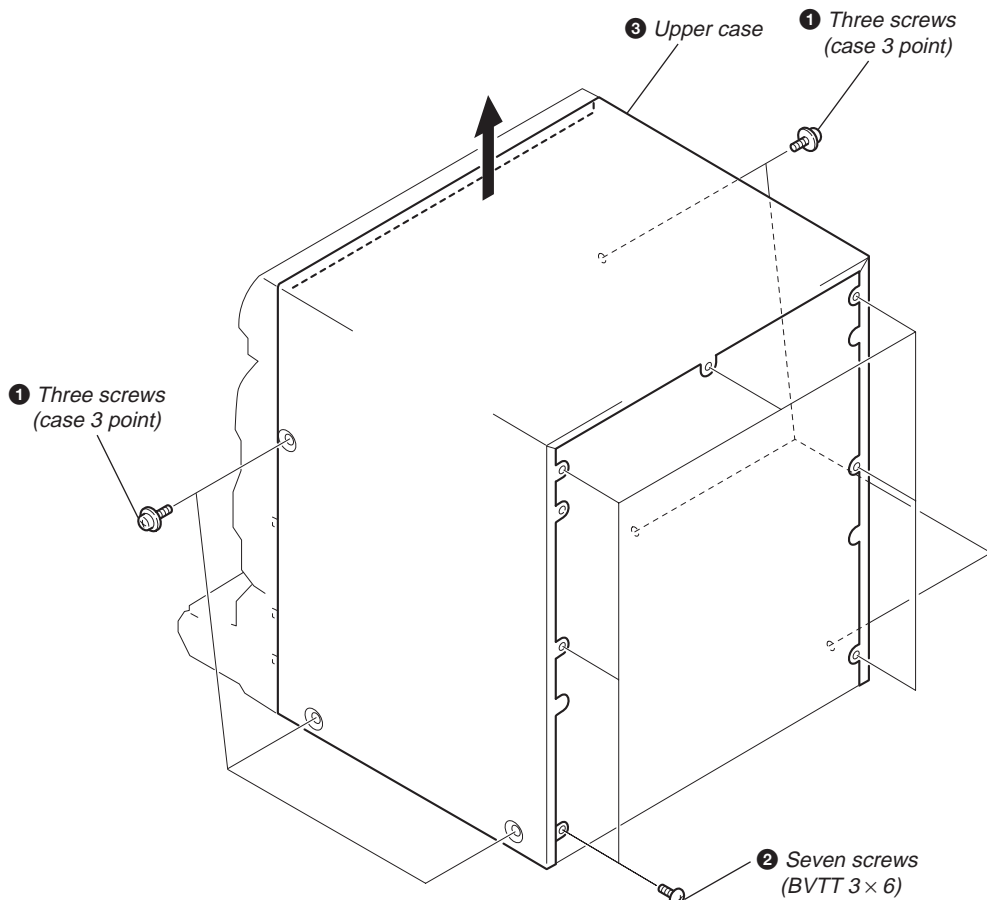
SECTION 2 DISASSEMBLY

- This set can be disassembled in the order shown below.

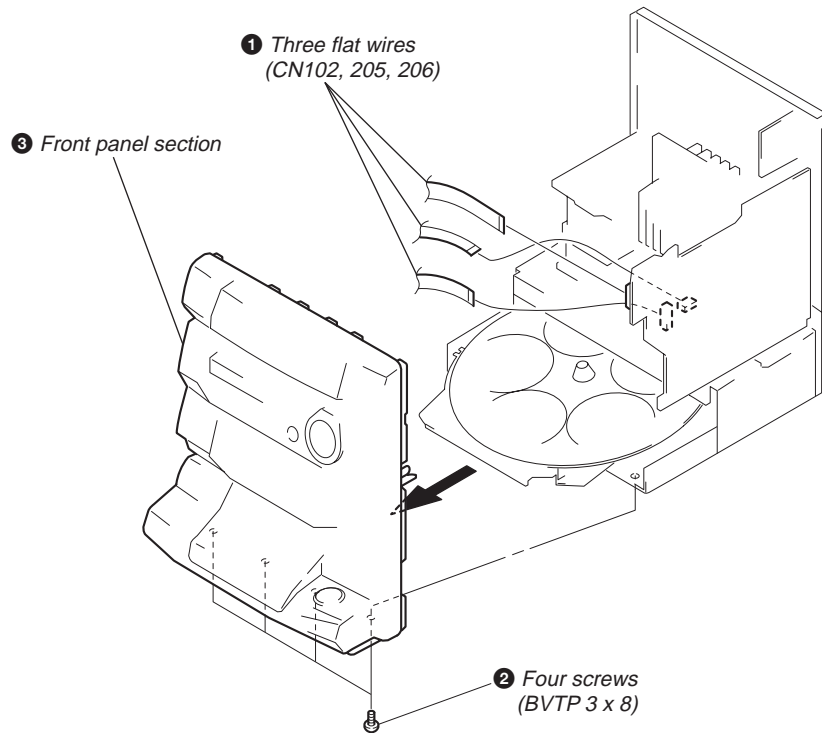


Note: Follow the disassembly procedure in the numerical order given.

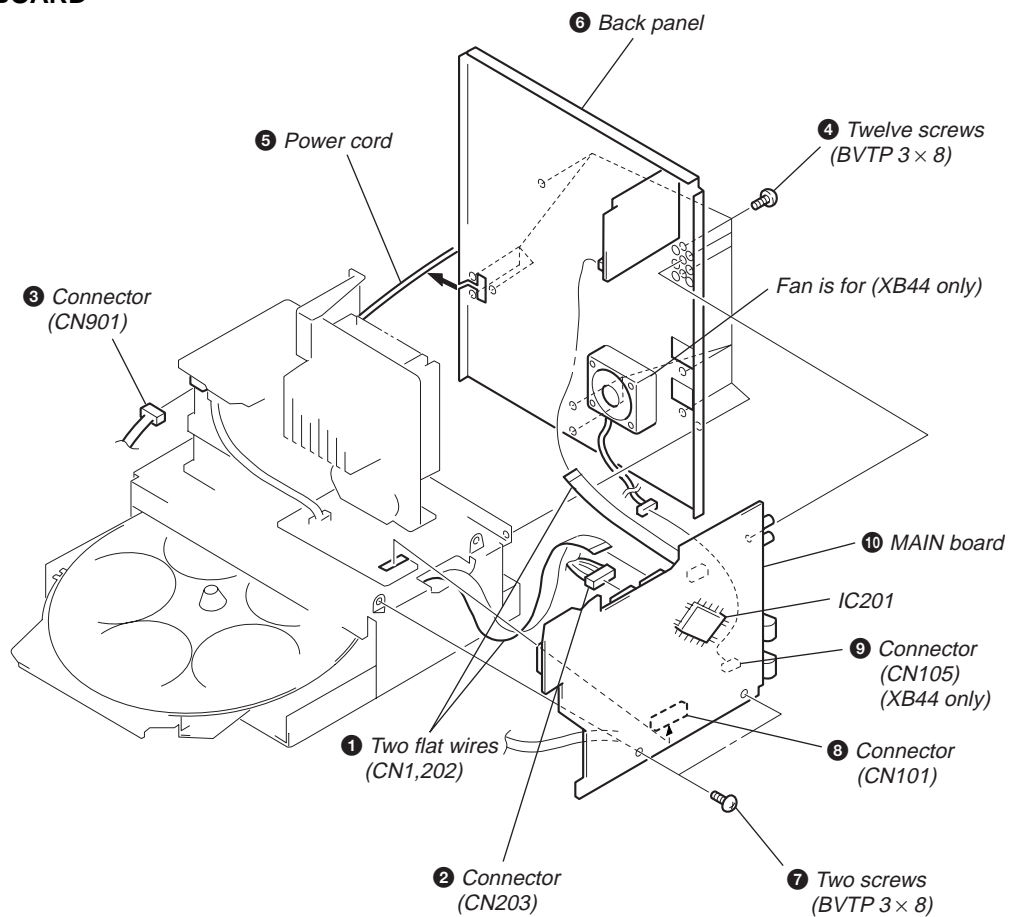
2-1. UPPER CASE



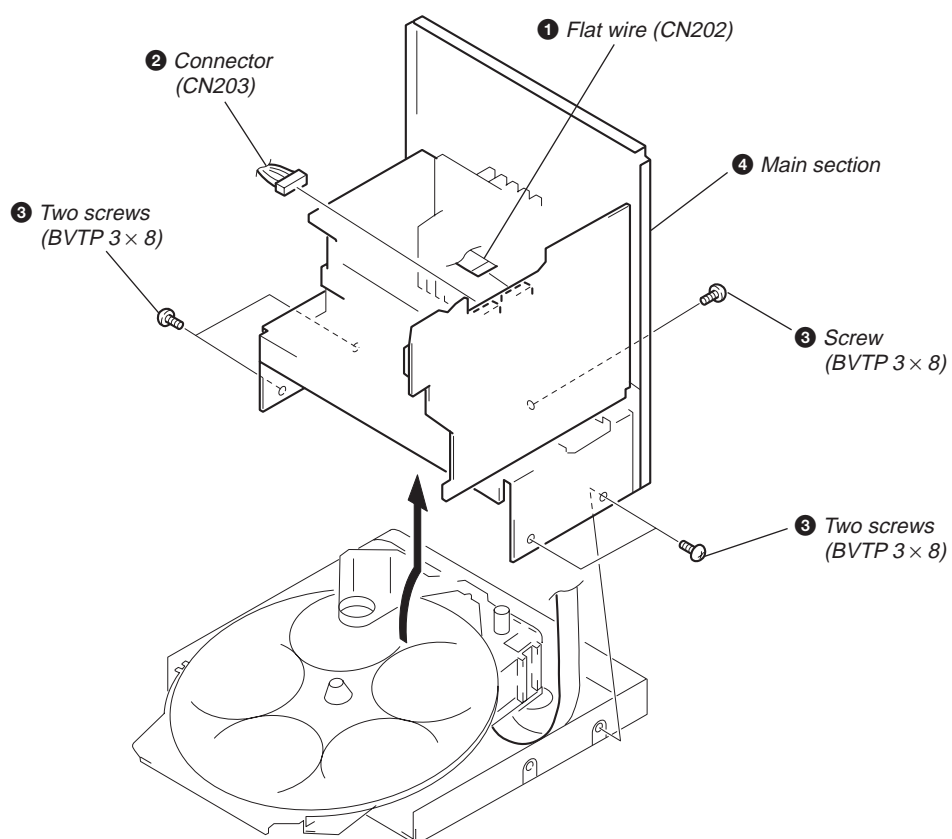
2-2. FRONT PANEL SECTION



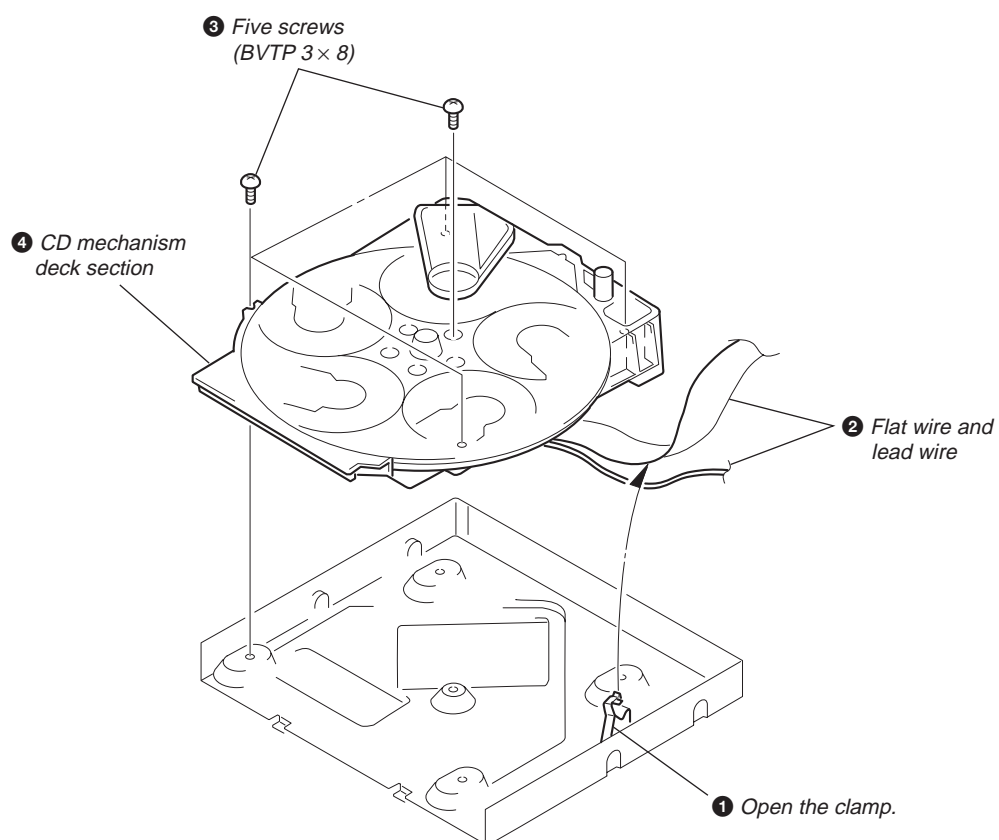
2-3. MAIN BOARD



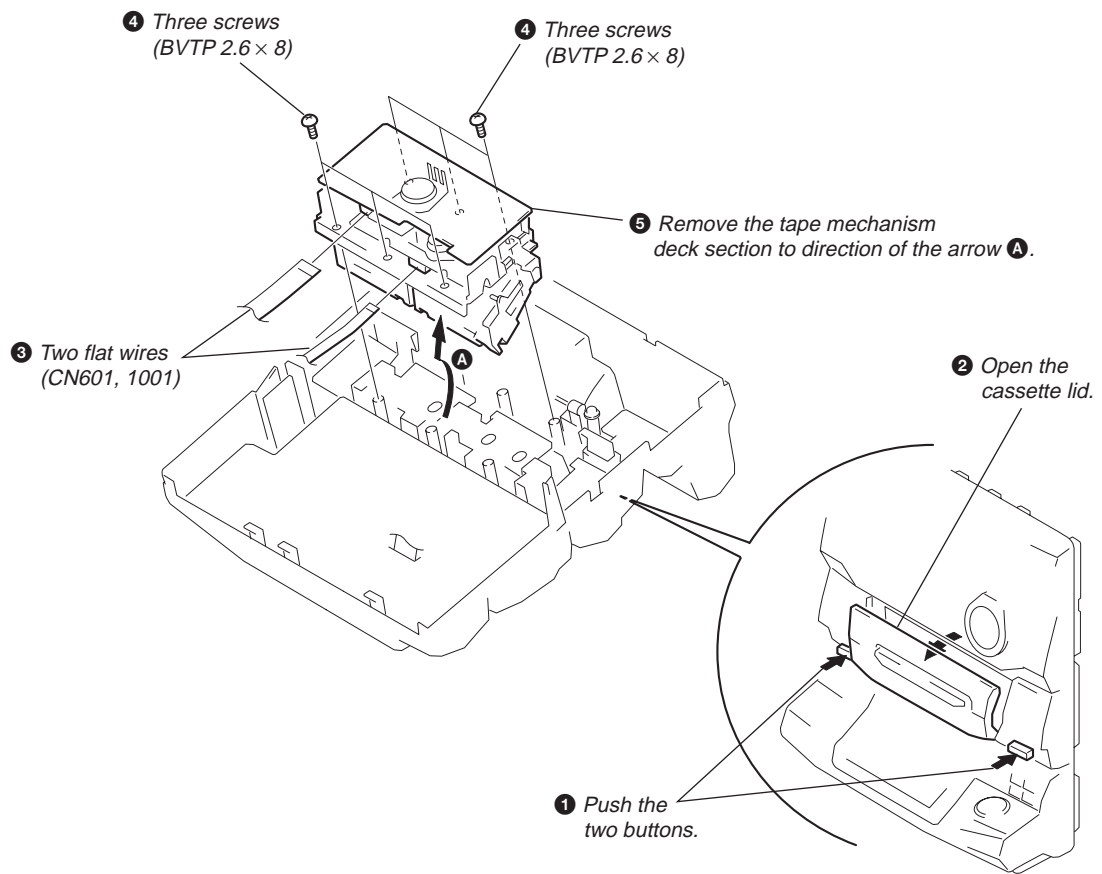
2-4. MAIN SECTION



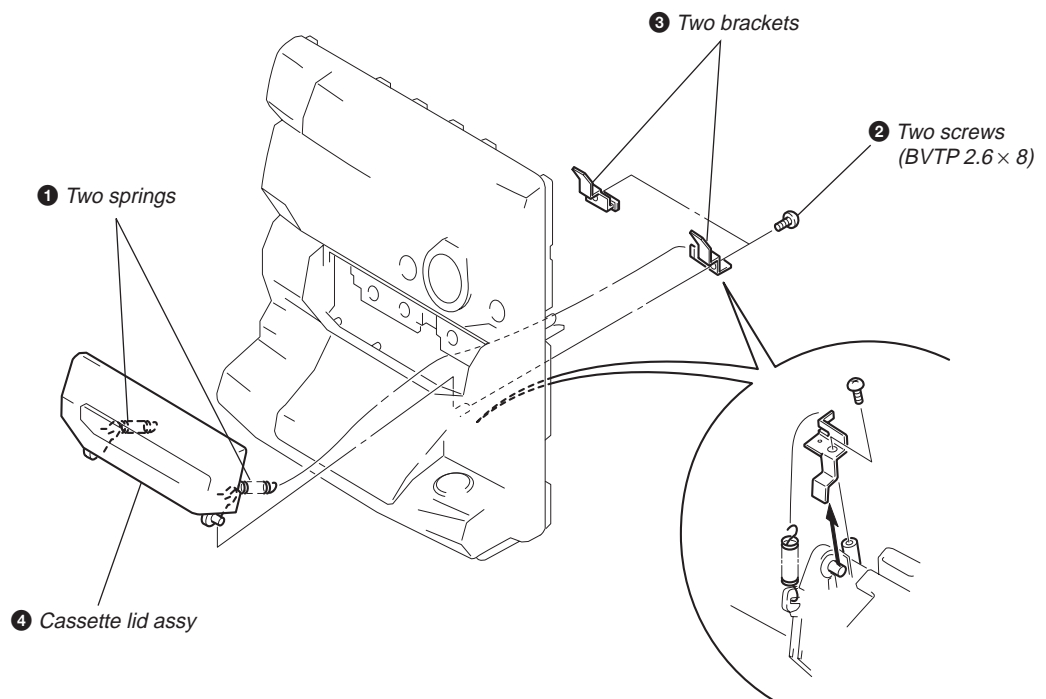
2-5. CD MECHANISM DECK SECTION



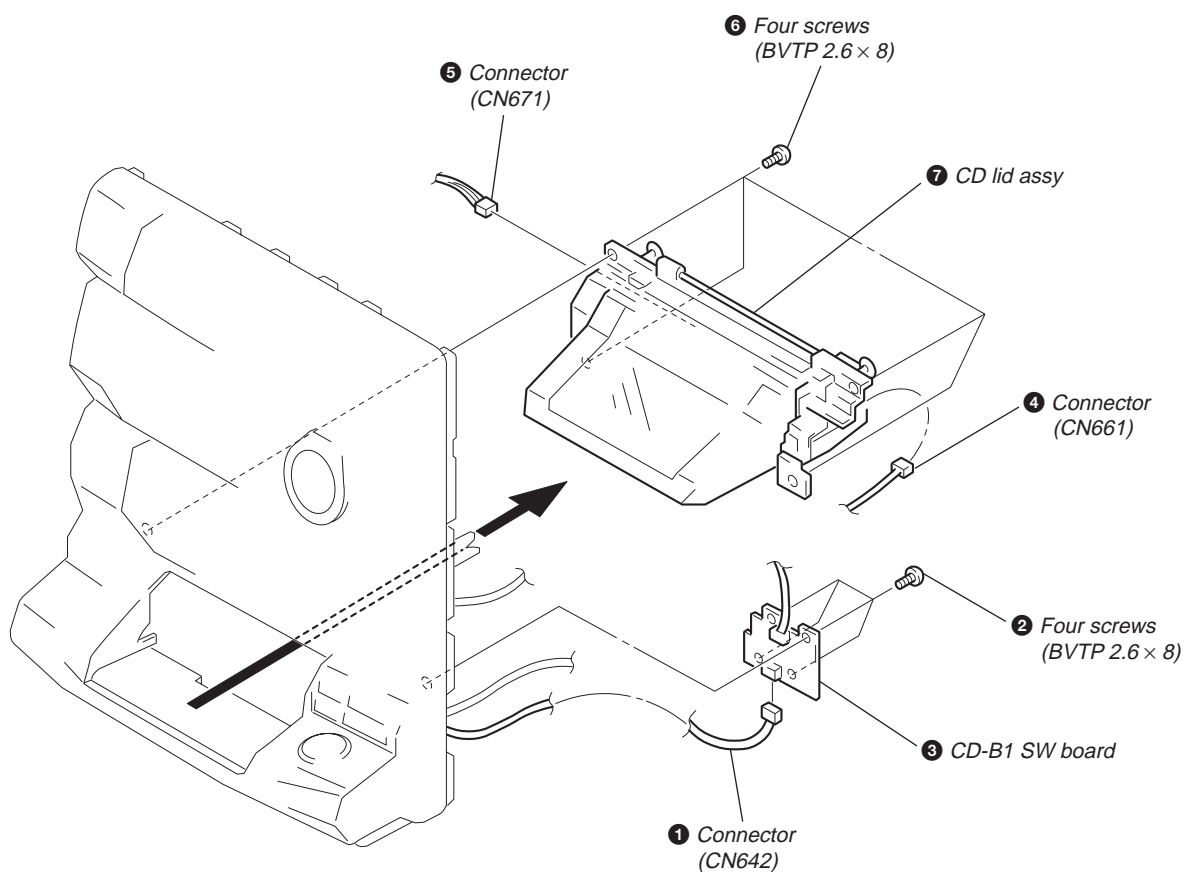
2-6. TAPE MECHANISM DECK SECTION



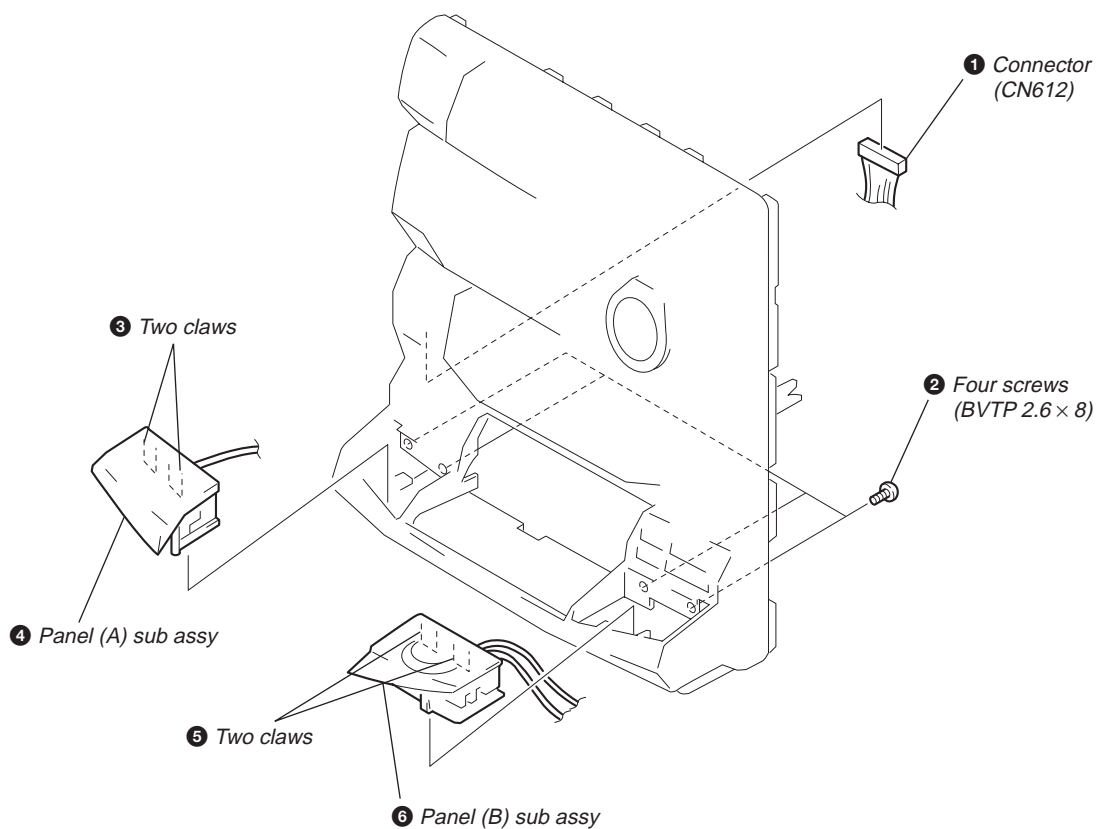
2-7. CASSETTE LID ASSY



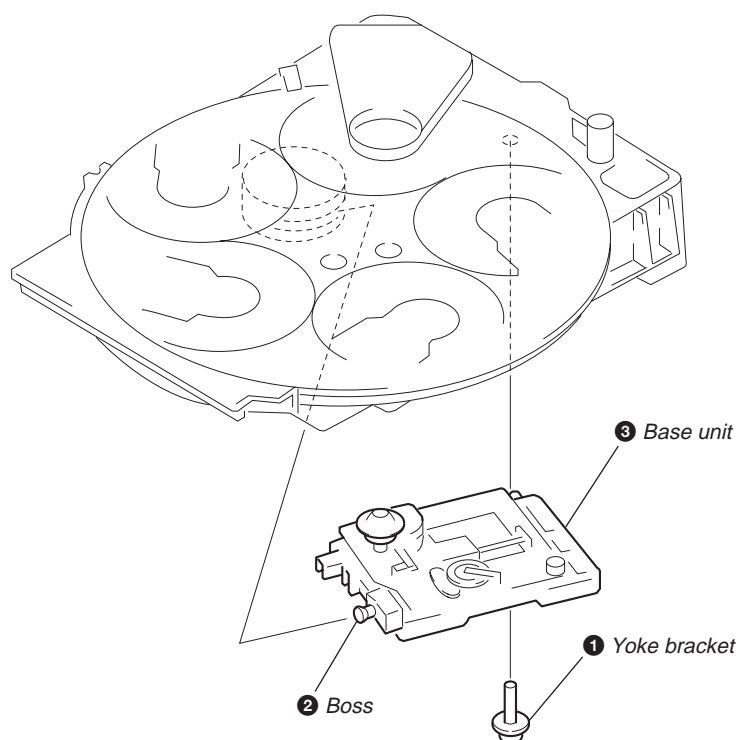
2-8. CD LID ASSY SECTION



2-9. PANEL (A) / (B) SUB ASSY



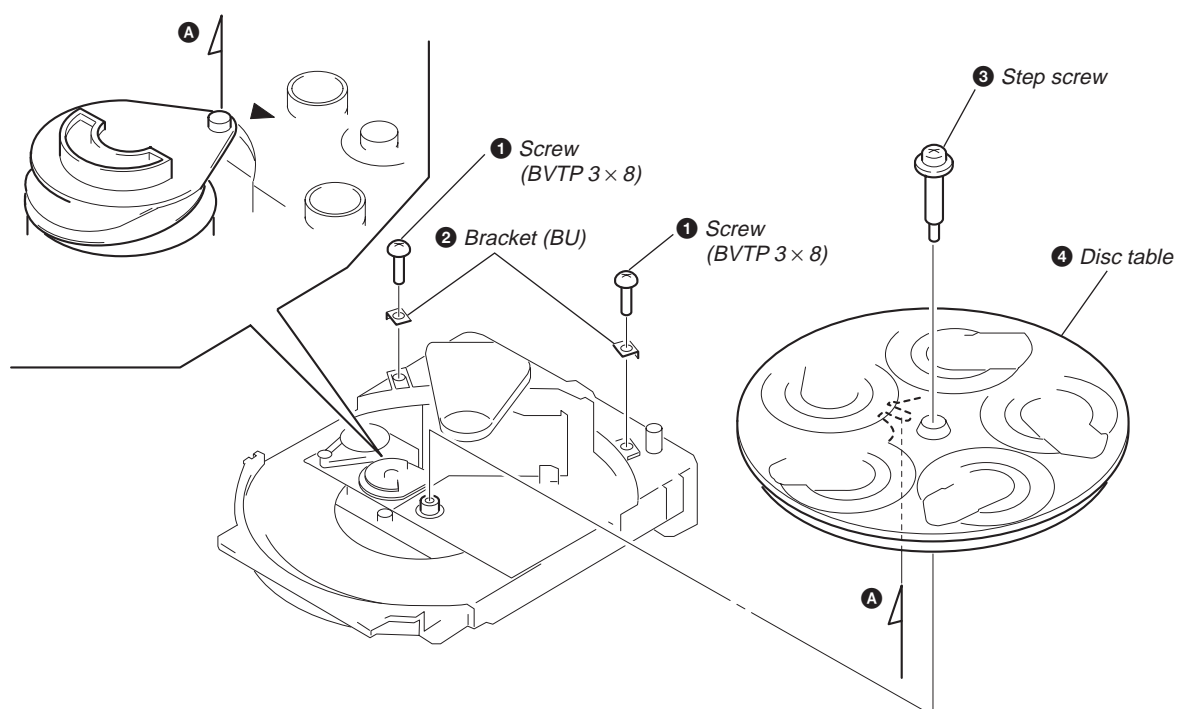
2-10. BASE UNIT



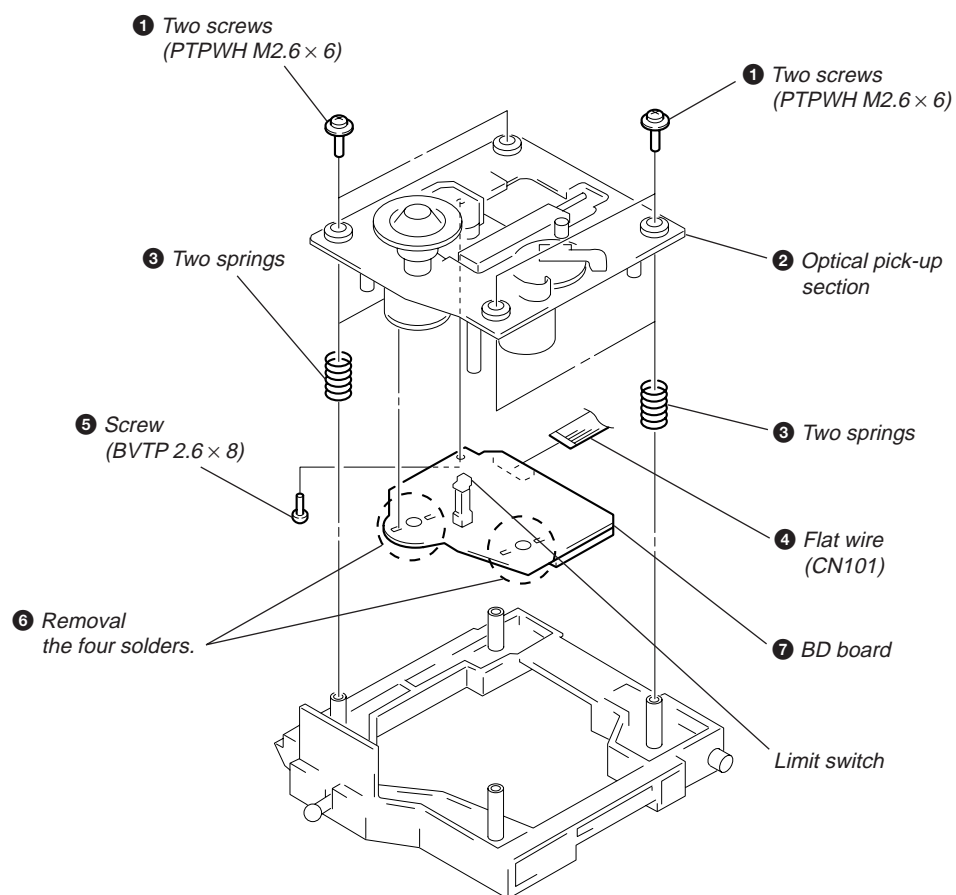
2-11. DISC TABLE

Note:

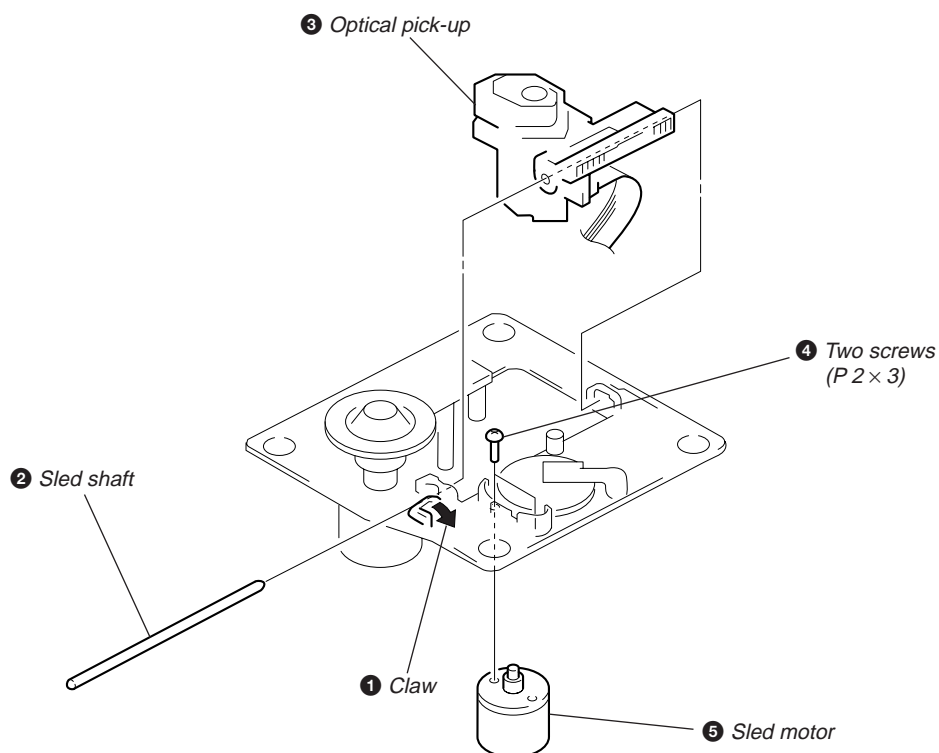
When the disc table is installed, adjust the positions of roller cam and mark ► as shown in the figure, then set to the groove of disc table.



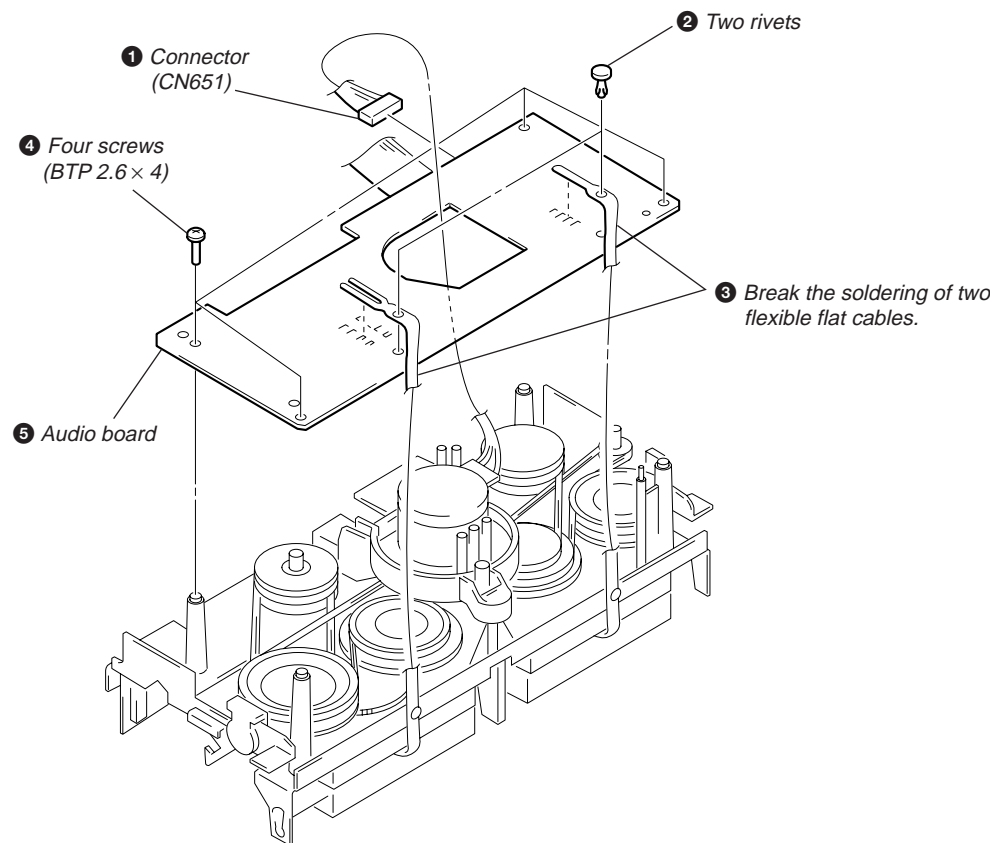
2-12. BD BOARD



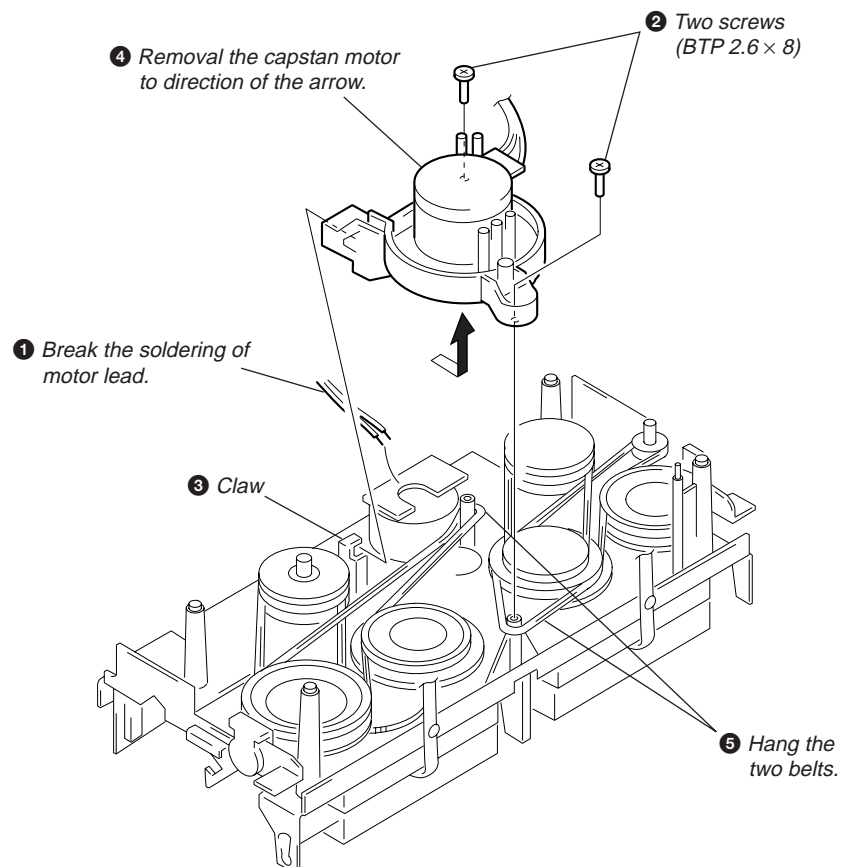
2-13. OPTICAL PICK-UP, SLED MOTOR



2-14. AUDIO BOARD



2-15. CAPSTAN MOTOR



SECTION 3

TEST MODE

[MC Cold Reset]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons **GROOVE**, **ENTER/NEXT**, and **DISC 1** simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[CD Delivery Mode]

- This mode moves the pickup to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press **POWER** button to turn the set ON.
2. Press **PLAY MODE** button and **POWER** button simultaneously.
3. A message "LOCK" is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

[MC Hot Reset]

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons **GROOVE**, **ENTER/NEXT**, and **DISC 2** simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[Sled Servo Mode]

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

1. Select the function "CD".
2. Press three buttons **GROOVE**, **ENTER/NEXT**, and **FLASH** simultaneously.
3. The Sled Servo mode is selected, if "CD" is flashing on the fluorescent indicator tube.
4. With the CD in stop status, press **▶▶** button in CD section to move the pickup to outside track, or **◀◀** button to inside track.
5. To exit from this mode, perform as follows:
 - 1) Move the pickup to the most inside track.
 - 2) Press three buttons in the same manner as step 2.

Note:

- Always move the pickup to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

[Change-over of AM Tuner Step between 9kHz and 10kHz]

- A step of AM channels can be changed over between 9kHz and 10kHz.

Procedure:

1. Press **POWER** button to turn the set ON.
2. Select the function "TUNER", and press **TUNER/BAND** button to select the BAND "AM".
3. Press **POWER** button to turn the set OFF.
4. Press **ENTER/NEXT** and **POWER** buttons simultaneously, and the display of fluorescent indicator tube changes to "AM 9k STEP" or "AM 10k STEP", and thus the channel step is changed over.

[LED and Fluorescent Indicator Tube All Lit, Key Check Mode]

Procedure:

1. Press three buttons **GROOVE**, **ENTER/NEXT**, and **DISC 3** simultaneously.
2. LEDs and fluorescent indicator tube are all turned on. Press **DISC 2** button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays "K 1 J 0 V 0". Each time a button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account.
"J" Value increases like 1, 2, 3 ... if rotating **JO** knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
"V" Value increases like 1, 2, 3 ... if rotating **VO** knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.


[Aging Mode]

This mode can be used for operation check of CD section and tape deck section.

- If an error occurred:
The aging operation stops.
- If no error occurs:
The aging operation continues repeatedly.

1. Aging Mode in CD Section

1-1. Operating Method of Aging Mode

1. Set discs in DISC 1 and DISC 3 trays.
 2. Select the function "CD".
 3. Press three buttons **GROOVE**, **ENTER/NEXT**, and **DISC 5** simultaneously.
 4. The aging mode is activated, if a roulette mark on the fluorescent indicator tube is flashing.
 5. In the aging mode, the aging is executed in a sequence given in "1-2. Operation during Aging Mode".
The aging continues unless an alarm occurred.
 6. To exit from the aging mode, press **POWER** button to turn the set OFF.
- If a button other than buttons in the CD section is pressed during aging, the aging in the CD section is finished.
 - To execute aging to the tape deck section successively, press  button in the deck A.
"AGING" is displayed on the fluorescent indicator tube. (For the aging in tape deck, see "2. Aging Mode in Tape Deck Section".)

1-2. Operation during aging Mode

In the aging mode, the program is executed in the following sequence.

1. The disc tray turns to select a disc. (For a disc selection sequence, see Section 1-3.)
2. TOC of disc is read.
3. The pickup accesses to the last track.
4. Steps 1 through 3 are repeated.



1-3. Disc Selection Sequence

- During the aging mode, discs are selected in the following sequence:

Disc 1 → Disc 3
↑ ↓
Disc 3 ← Disc 1

2. Aging Mode in Tape Deck Section

2-1. Operating Method of Aging Mode

1. Load a commercially available 10-minute tape into the decks A and B respectively.
(If a 10-minute tape is not available, another tape may be used but a cycle time will be longer.)
2. Select the function "TAPE".
3. Rewind tapes in advance by pressing  button respectively on decks A and B.
4. Press three buttons **GROOVE**, **ENTER/NEXT**, and **DISC 5** simultaneously.
5. Press  button on deck A. (This button triggers the aging mode.)
6. The aging mode is activated if "AGING A" is displayed on the fluorescent indicator tube.
7. In the aging mode, the aging is executed in a sequence given in "2-2. Operation during Aging Mode".
The aging continues unless an alarm occurred.

8. To exit from the aging mode, press **POWER** button to turn the set OFF.

2-2. Operation during Aging Mode

In the aging mode, the program is executed in the following sequence.

1. A tape on FWD side is played for one minute.
2. PAUSE STOP is made.
3. Recording is made for 3 minutes. (For the deck not having the record function, the play is executed.)
4. FF is executed up to the end of tape.
5. A tape is reversed, and the tape on REV side is played for one minute.
6. PAUSE STOP is made.
7. Recording is made for 3 minutes. (For the deck not having the record function, the play is executed.)
8. FF is executed up to the end of tape.
9. Steps 1 through 8 are executed for the other deck.
10. Steps 1 through 9 are repeated unless an alarm occurred.

2-3. Deck Selection Sequence

- During the aging mode, decks are selected in the following sequence:

Deck A (FWD) → Deck A (REV)
↑ ↓
Deck B (REV) ← Deck B (FWD)

SECTION 4 MECHANICAL ADJUSTMENTS

PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	36 to 61g·cm (0.50 – 0.84 oz·inch)
Forward Back Tension	CQ-102C	2 to 6g·cm (0.026 – 0.082 oz·inch)
Reverse	CQ-102RC	36 to 61g·cm (0.50 – 0.84 oz·inch)
Reverse Back Tension	CQ-102RC	2 to 6g·cm (0.026 – 0.082 oz·inch)
FF, REW	CQ-201B	61 to 143g·cm (0.85 – 1.98 oz·inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 100g (3.52 oz)
Reverse	CQ-403R	more than 100g (3.52 oz)

SECTION 5 ELECTRICAL ADJUSTMENTS

DECK SECTION

0dB=0.775V

- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjust.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- The adjustments should be performed for both L-CH and R-CH.
- Switches and controls should be set as follows unless otherwise specified.
- Set to test mode. (Press key switch same time **GROOVE** **ENTER/NEXT** and **DISC 4** button.)

• Test Tape

Tape	Signal	Used for
P-4-A100	10kHz, -10 dB	Azimuth Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment

Record/Playback Head Azimuth Adjustment

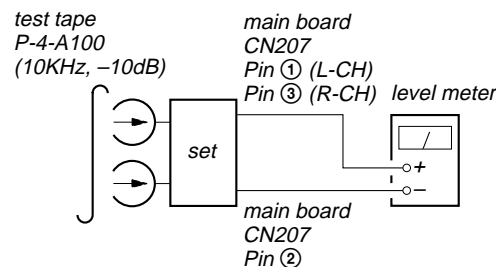
DECK A

DECK B

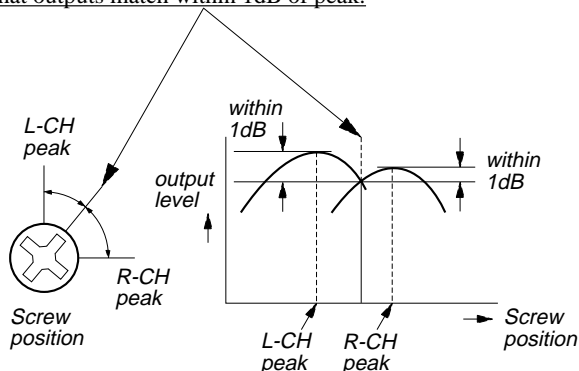
Note: Perform this adjustments for both decks

Procedure:

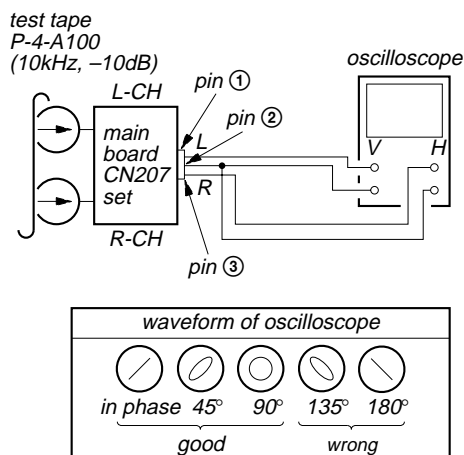
- Mode: Playback (FWD)



- Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

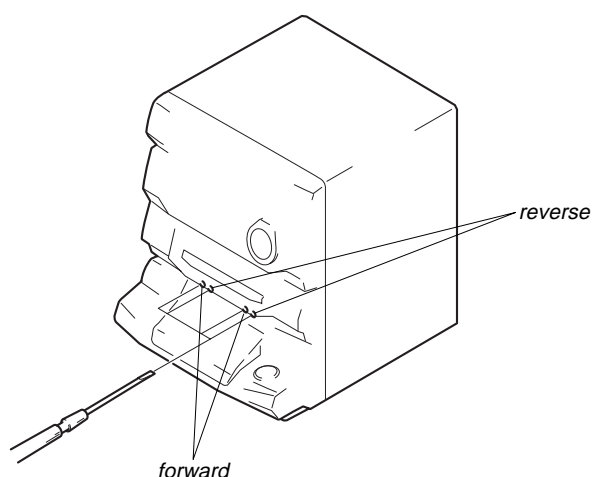


- Mode: Playback (FWD)



- Repeat steps 1 to 3 in playback (REV) mode.
- After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Record/Playback Head (Deck A and B) and main board.



Tape Speed Adjustment **DECK A**

Notes: • Start the Tape Speed adjustment as below after setting to the test mode.

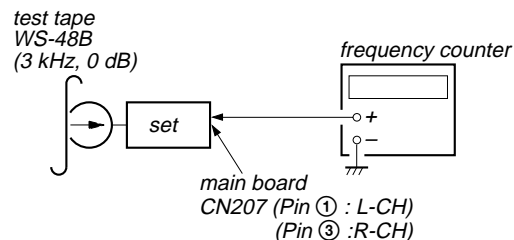
- In the test mode, the tape speed is high during pressing the **H. SPEED DUB** button.

Procedure:

- Turn the power switch on.
- Press the **GROOVE** button, **ENTER/NEXT** button and **DISC 4** button simultaneously.

To exit from the test mode, press the **POWER** button.

Mode: Playback (FWD)



- Insert the WS-48B into the deck A and the blank tape into the deck B.
- Press the **REC** button and **▶** button on the deck B. Then the deck B is at recording mode.
- Set the deck A to playback mode.
- Keep pressing the **H. SPEED DUB** button in playback mode. Then at HIGH speed mode.
- Adjust RV652 on the AUDIO board so that frequency counter reads $6,000 \pm 60$ Hz.
- Take off the **H. SPEED DUB** button. Then at NORMAL speed mode.
- Adjust RV651 on the AUDIO board so that frequency counter reads $3,000^{+30}_{-10}$ Hz.
- Frequency difference between deck A and deck B the beginning of the tape should be within $\pm 1.5\%$.

Adjustment Location: AUDIO board

Sample Value of Wow and flutter

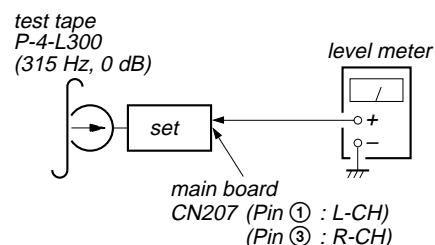
W.RMS (JIS) within 0.3%

(test tape: WS-48B)

Playback level Adjustment **DECK A** **DECK B**

Procedure:

Mode: Playback (FWD)



Deck A is RV311 (L-CH) and RV411 (R-CH), Deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level:

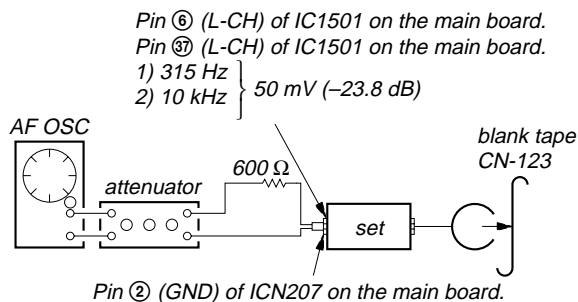
CN207 PB level: 301.5 to 338.3 mV (−8.2 to −7.2 dB) level difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO and main boards

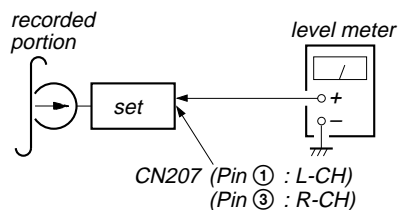
Record Bias Current Adjustment DECK B

Procedure:

1. Mode: record



2. Mode: Playback



Confirm playback that the signal recorded in step 1 becomes adjustable limits as follows.

If these levels are not adjustable limits, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 1 and 2.

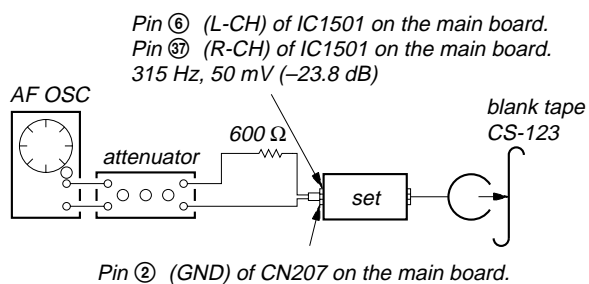
Adjustable limits: Playback output of 315 Hz to playback output of 10kHz: 0±0.5 dB

Adjustment Location: AUDIO and main boards

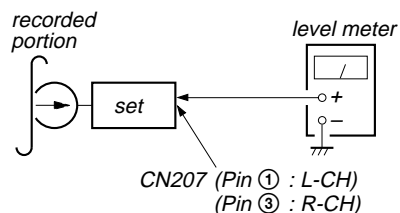
Record Level Adjustment DECK B

Procedure:

1. Mode: record



2. Mode: Playback



Confirm playback that the signal recorded in step 1 becomes adjustable limits as follows.

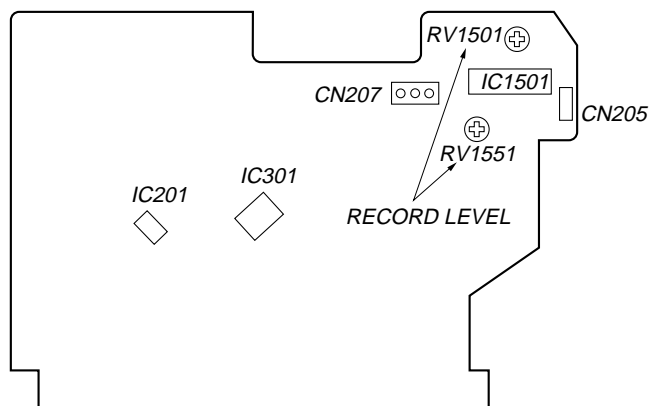
If these levels are not adjustable limits, adjust the RV1501 (L-CH) and RV1551 (R-CH) on the main board to repeat steps 1 and 2.

Adjustable limits:

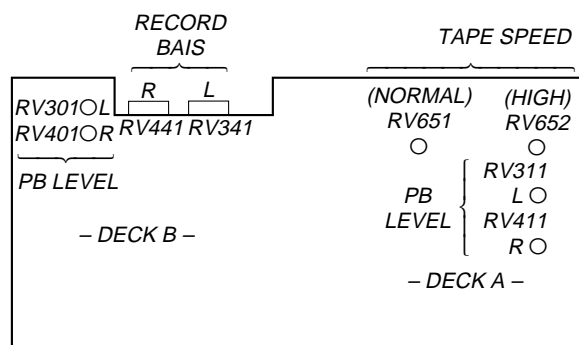
CN207 PB level: 47.3 to 53.1 mV (−24.3 to −23.3 dB)

Adjustment Location: main board

[MAIN BOARD] (Component Side)



[AUDIO BOARD] (Conductor Side)



TUNER SECTION

0dB=1μV

Note 1: As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

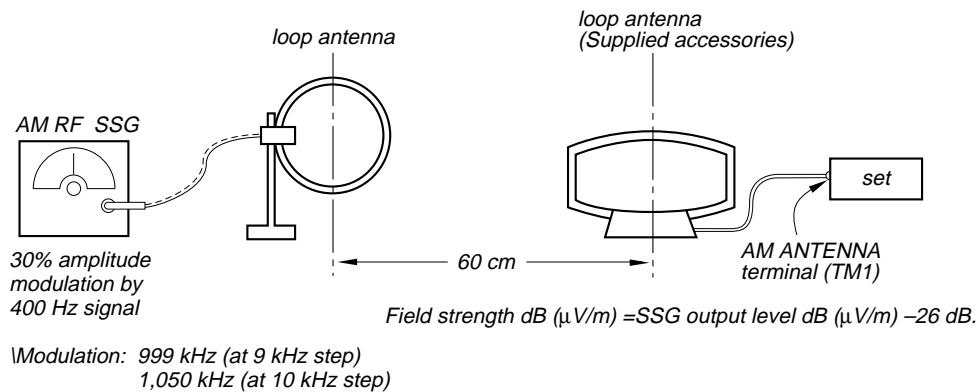
Note 2: No adjustment is needed due to a tuner pack for except AEP, UK, East European, CIS models.

AM Tuned Level Adjustment

Note: FM Tuned Level adjustment should be performed after this AM Tuned Level Adjustment.

Setting:

Band: MW



Procedure:

1. Set the output of SSG so that the input level of the set becomes 55 dB.
2. Tune the set to 999 kHz or 1,050 kHz.
3. Adjust RV41 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: TCB board

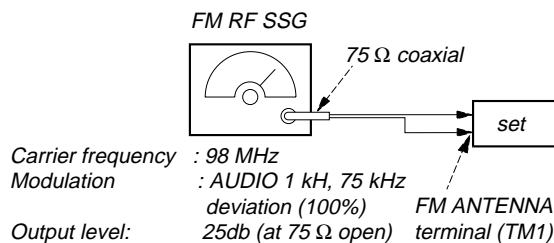
Adjustment Location: TCB board

FM Tuned Level Adjustment

Note: This adjustment should be performed after the AM Tuned Level Adjustment.

Setting:

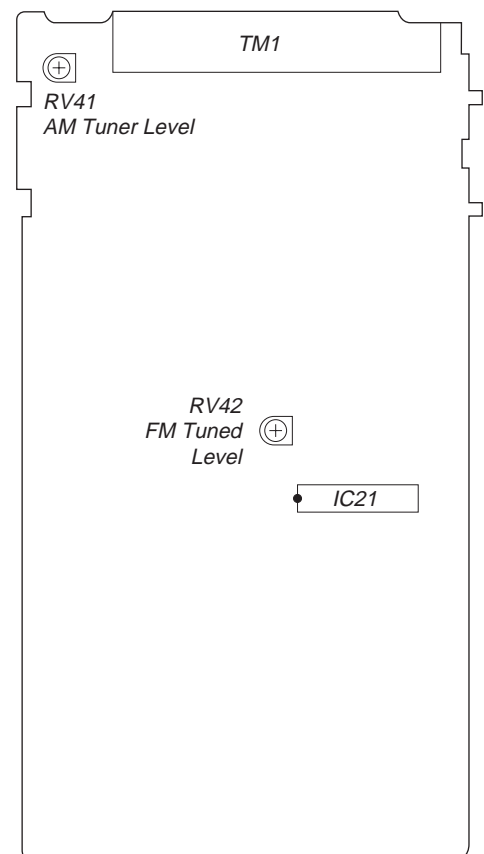
Band: FM



Procedure:

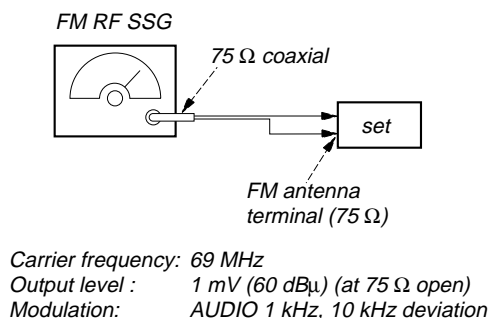
1. Supply a 25 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust RV42 to the point (moment) when the TUNED indicator will change from going off to going on.

[TCB BOARD] (Component Side)

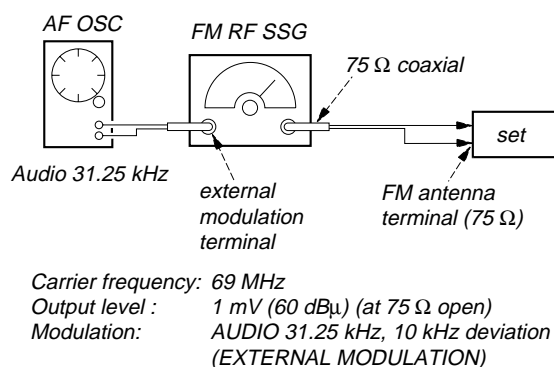


FM Polar Adjustment (East European, CIS model only)

Connection 1:

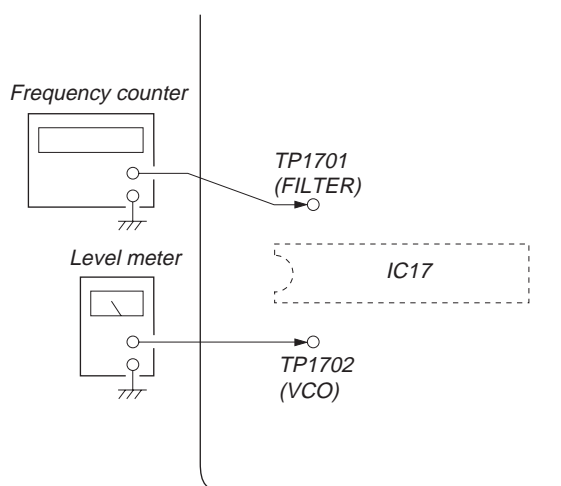


Connection 2:

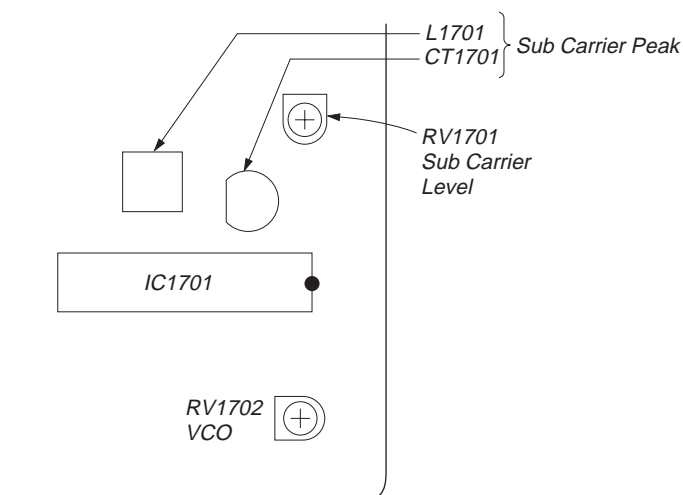


Adjustment Location: TCB board

[TCB BOARD] (Conductor Side)



[TCB BOARD] (Component Side)



Procedure:

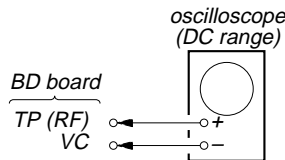
1. Set the modulation of FM RF SSG to AUDIO 1 kHz, 10 kHz deviation according to "Connection 1".
2. Tune the set to 69 MHz.
3. Adjust the RV1702 so that the reading of frequency counter connected to TP1702 (VCO) becomes within 31.25 kHz \pm 0.05 kHz. (VCO adjustment)
4. Then record the reading of the level meter connected to TP1701.
5. Set the modulation of FM RF SSG to AUDIO 31.25 kHz, 10 kHz deviation according to "Connection 2".
6. Tune the set to 69 MHz.
7. Set the CT1701 to be mechanical center.
8. Adjust the L1701 so that the reading of the level meter connected to TP1701 (FILTER) becomes maximum. (SUB CARRIER PEAK Adjustment)
9. Adjust the RV1701 so that the level at the moment becomes 14 dB higher value than the level recorded in step 4. (SUB CARRIER LEVEL Adjustment)

CD SECTION

Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than $10M\Omega$ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Adjust the focus bias adjustment when optical block is replaced.

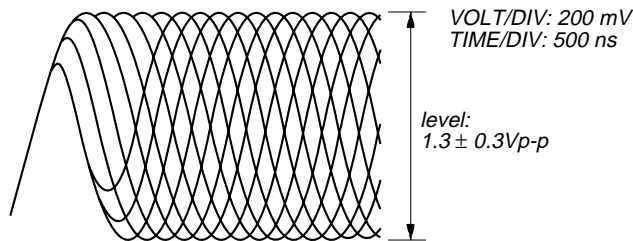
Focus Bias check



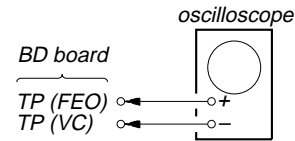
Procedure:

1. Connect oscilloscope to test point TP (RF). (GND terminal : VC)
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that the shape "◇" can be clearly distinguished at the center of the waveform and check the RF signal level.

• RF signal



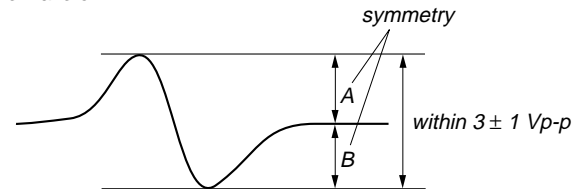
S Curve Check



Procedure:

1. Connect oscilloscope to test point TP (FEO).
2. Connect between test point TP (FEO) and GND by lead wire.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within $3 \pm 1 V_{p-p}$.

S-curve waveform

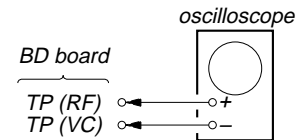


6. After check, remove the lead wire connected in step 2.

Notes:

- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

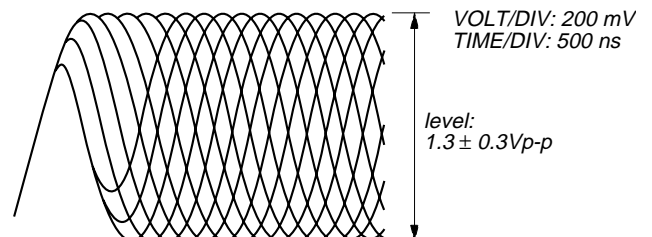


Procedure:

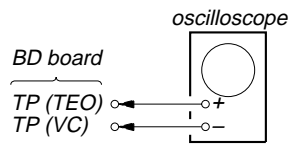
1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note: Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

• RF signal



E-F Balance (1 Track Jump) check **(Without remote commander)**

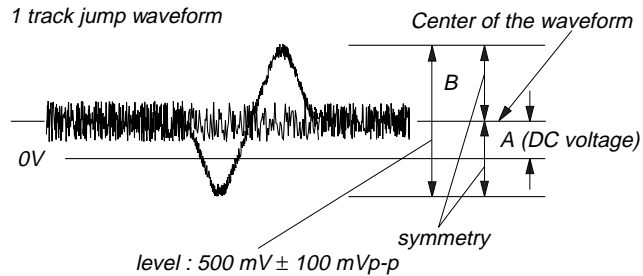


Procedure:

1. Connect oscilloscope to test point TP (TEO) on BD board.
 2. Turned Power switch on.
 3. Put disc (YEDS-18) in to play the number five track.
 4. Press the “■ (Pause)” button. (Becomes the 1 track jump mode)
 5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform.
- Confirm the following:

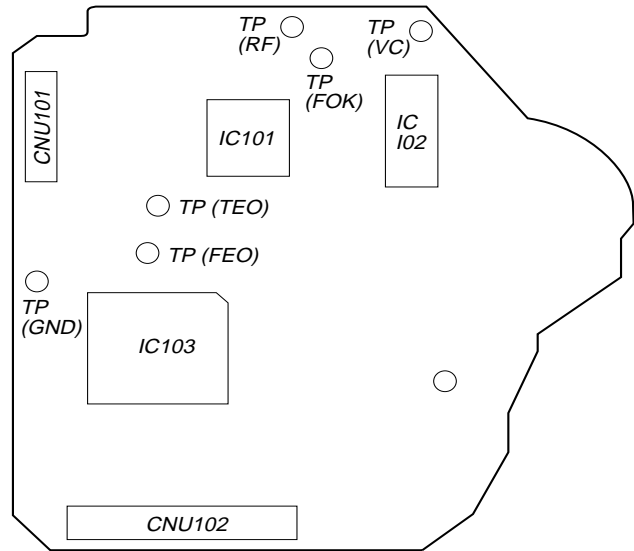
$$\frac{A - B}{2 (A + B)} \times 100 = \pm 7 (\%)$$

1 track jump waveform



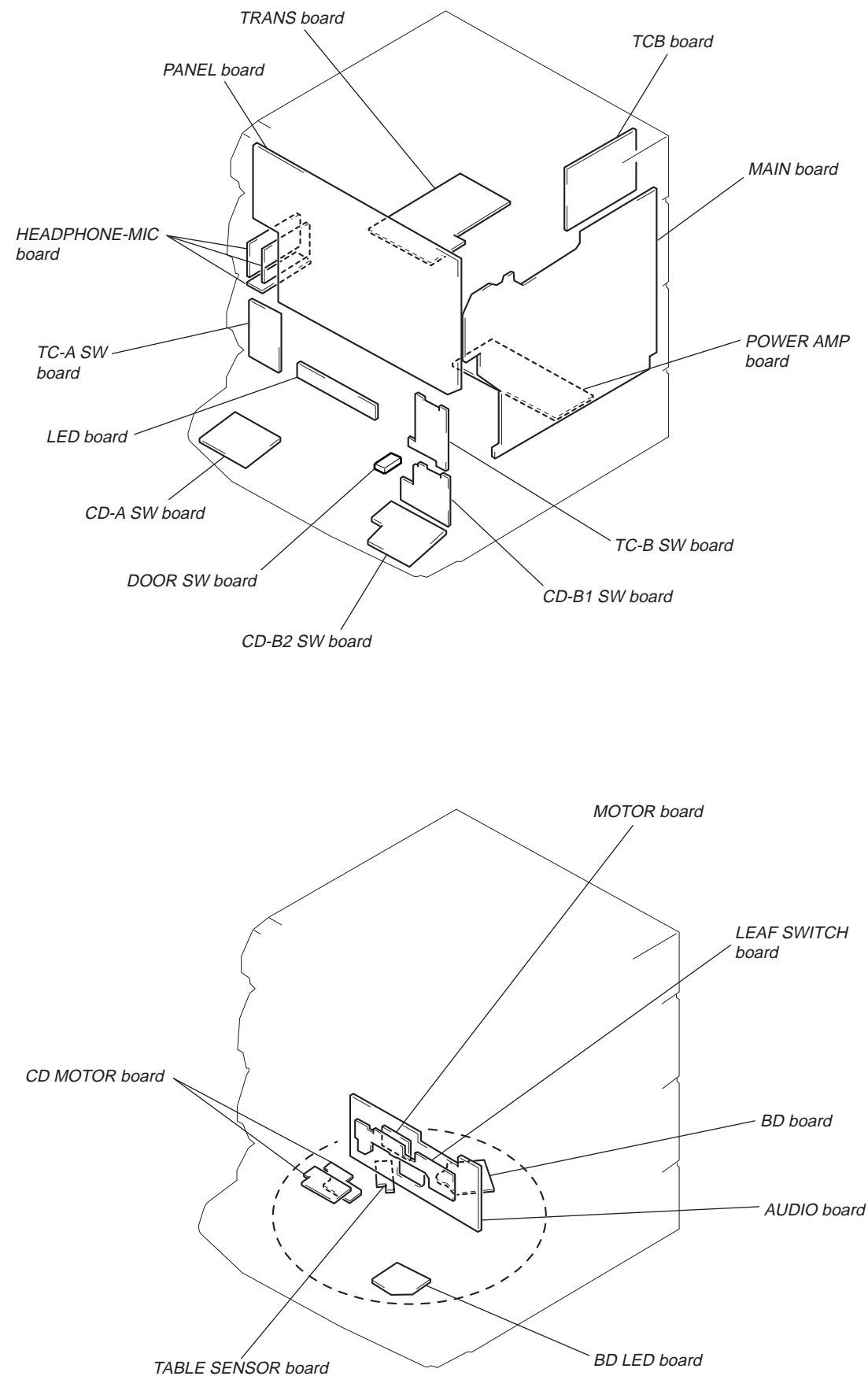
Adjustment Location:

[BD BOARD] (Conductor Side)

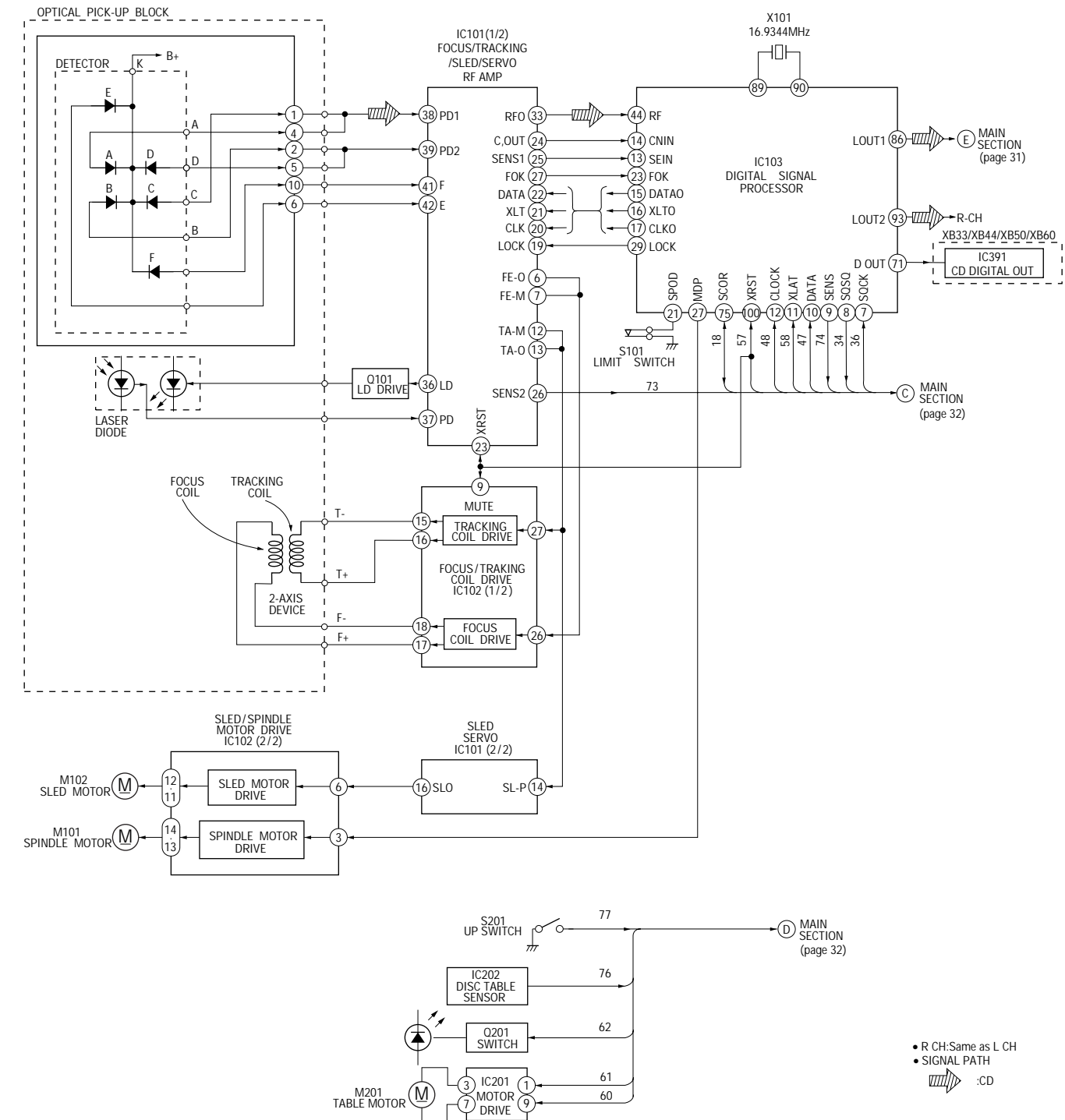


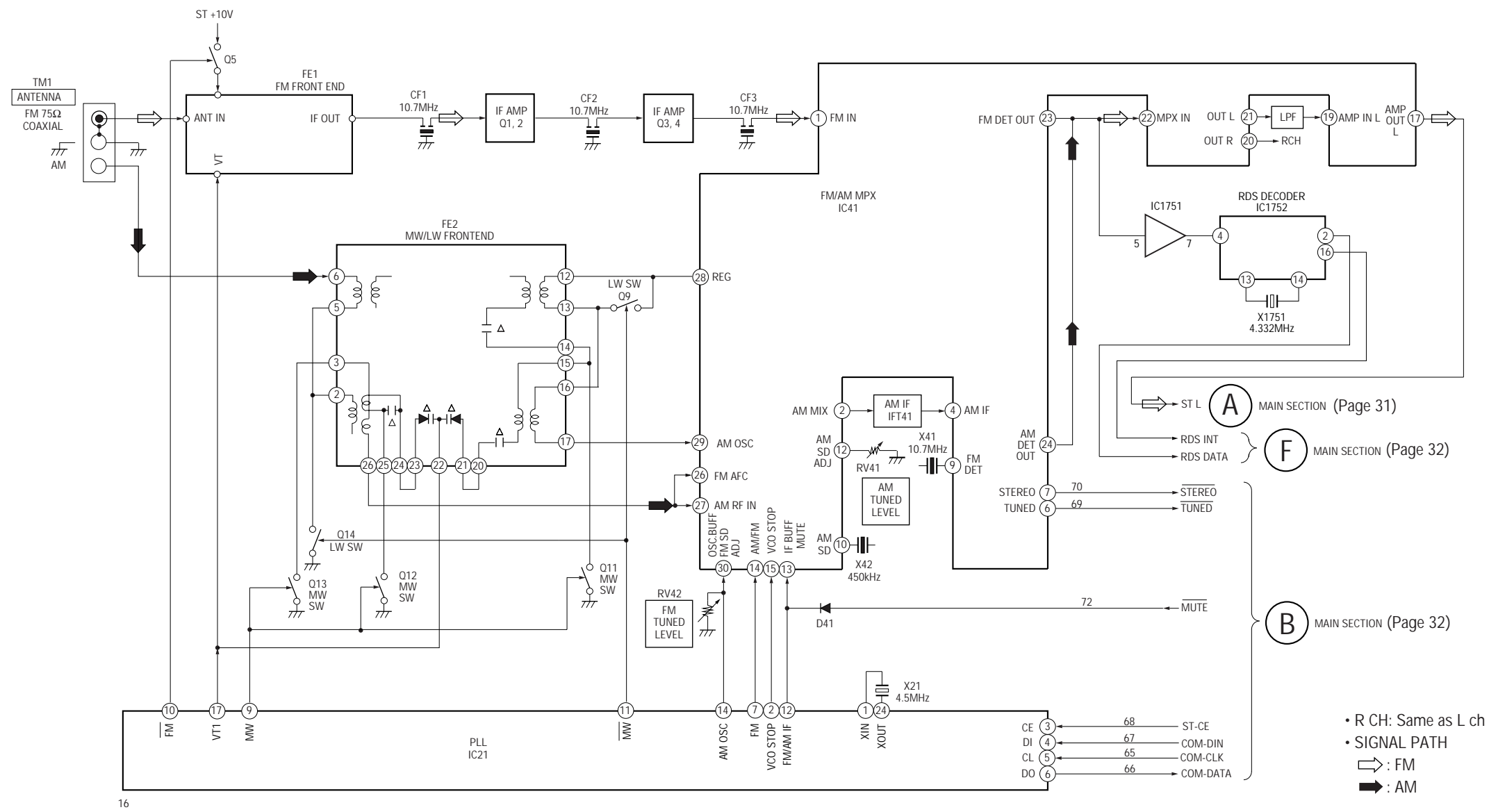
SECTION 6 DIAGRAMS

6-1. CIRCUIT BOARD LOCATION



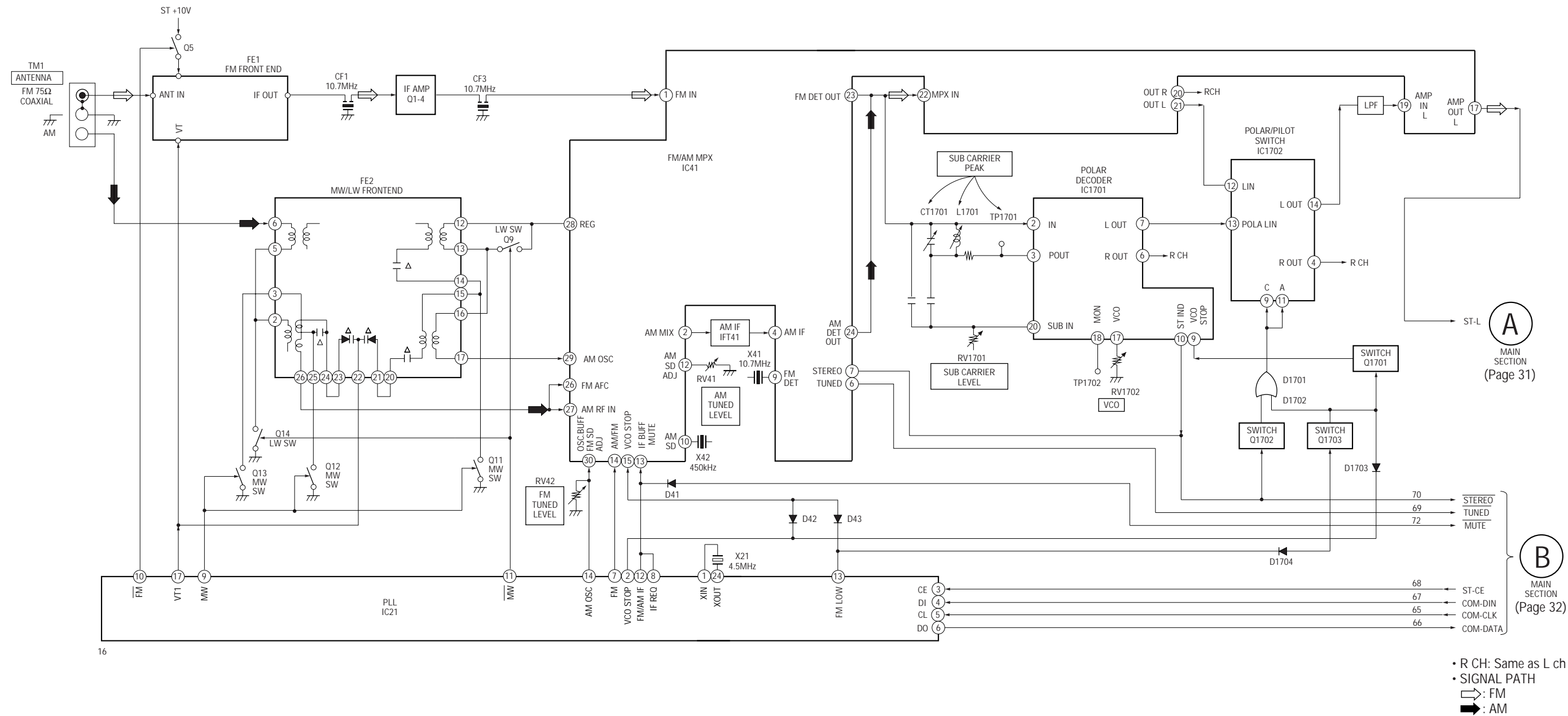
6-2. BLOCK DIAGRAMS – CD SECTION –



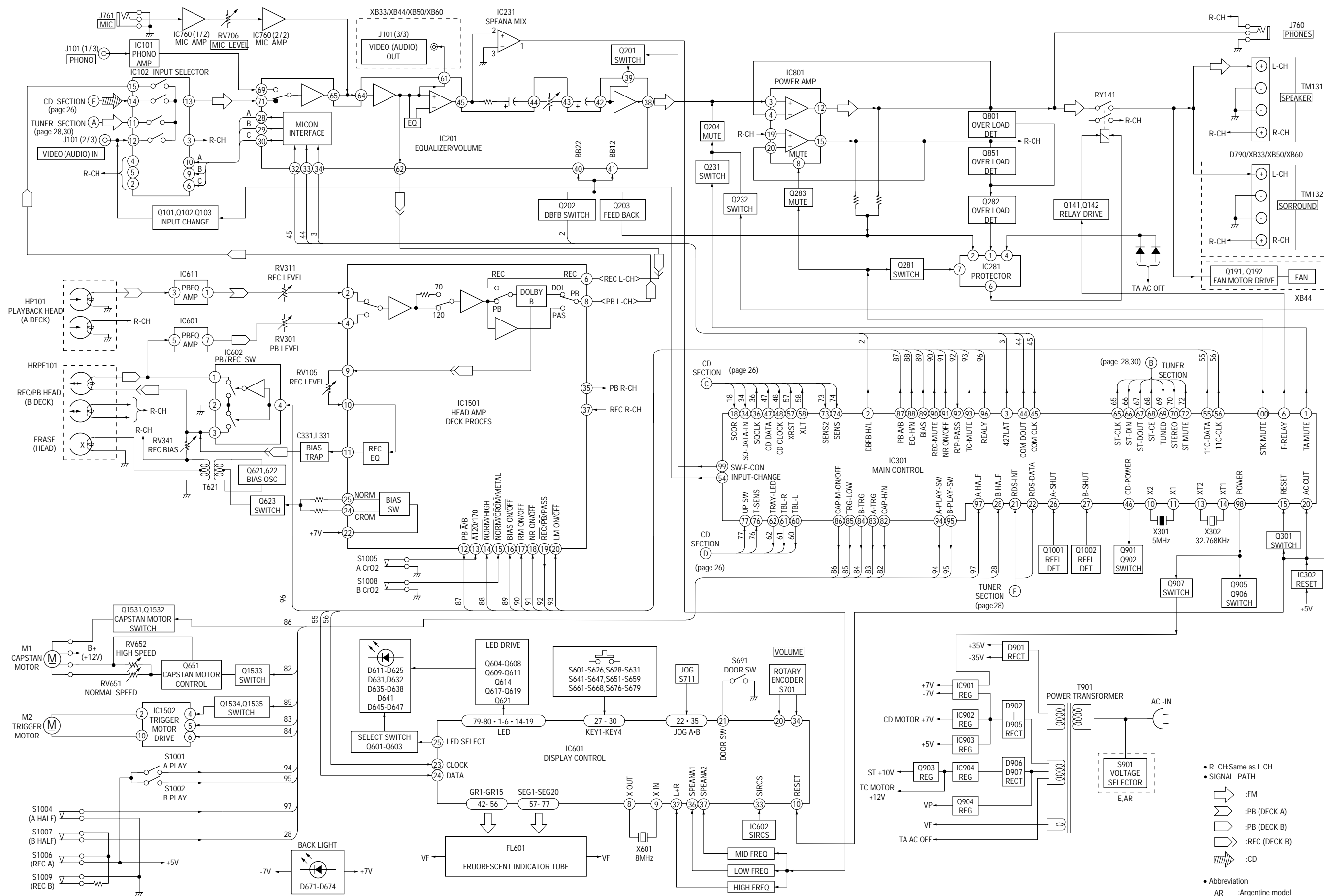


• R CH: Same as L ch
• SIGNAL PATH
⇨ : FM
➡ : AM

– TUNER SECTION – (East European, CIS model)






— MAIN SECTION —













THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)





For schematic diagrams.

- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4} \text{ W}$ or less unless otherwise specified.
 - % : indicates tolerance.
 - Δ : internal component.
 -  : nonflammable resistor.
 -  : fusible resistor.
 -  : panel designation.

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
---	--

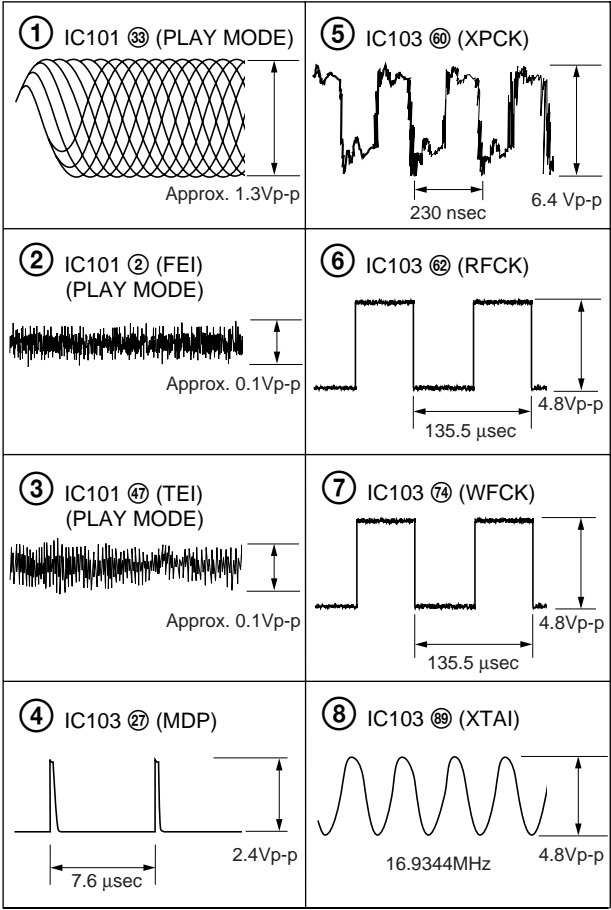
-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance $10 \text{ M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
 -  : FM
 -  : VIDEO/MD
 -  : PB (DECK A)
 -  : PB (DECK B)
 -  : REC (DECK B)
 -  : CD
 -  : PHONO
- Abbreviation
 - CND : Canadian
 - EE : East European
 - AUS : Australian
 - AR : Argentine
 - MX : Mexican
 - SAF : South African

For printed wiring boards.

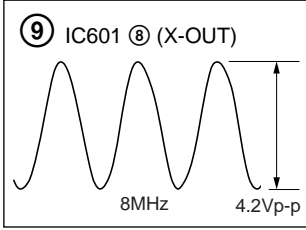
- Note:**
-  : parts extracted from the component side.
 -  : Through hole.
 -  : internal component.
 -  : Pattern from the side which enables seeing.

• WAVEFORM

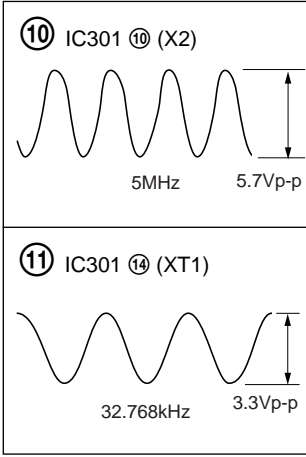
– BD SECTION –



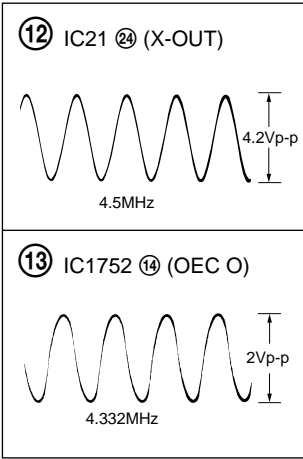
– PANEL SECTION –



– MAIN SECTION –



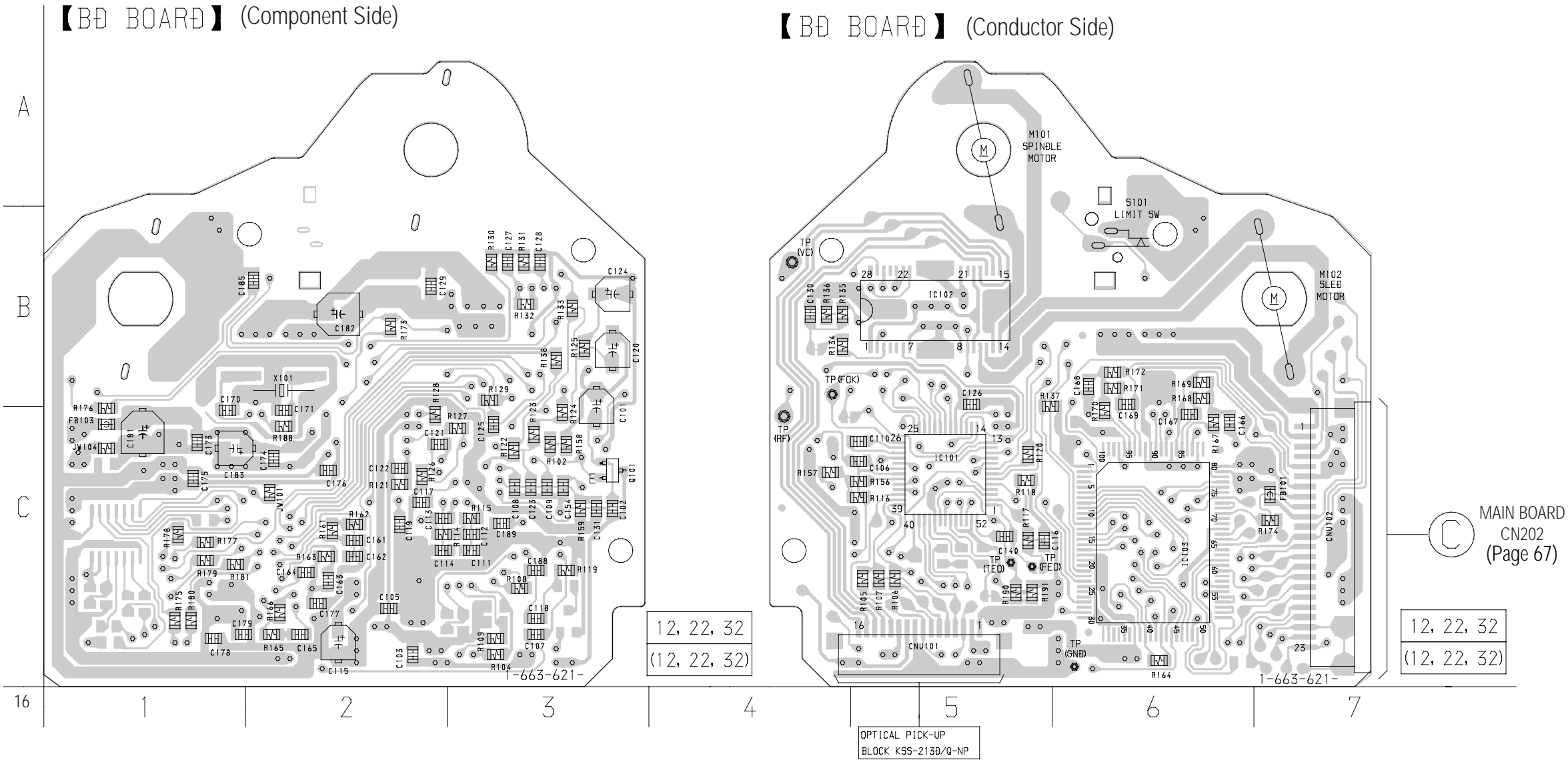
– TUNER SECTION –



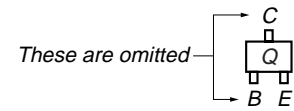
6-3. PRINTED WIRING BOARD – BD SECTION – • See page 25 for Circuit Boards Location.

• Semiconductor Location

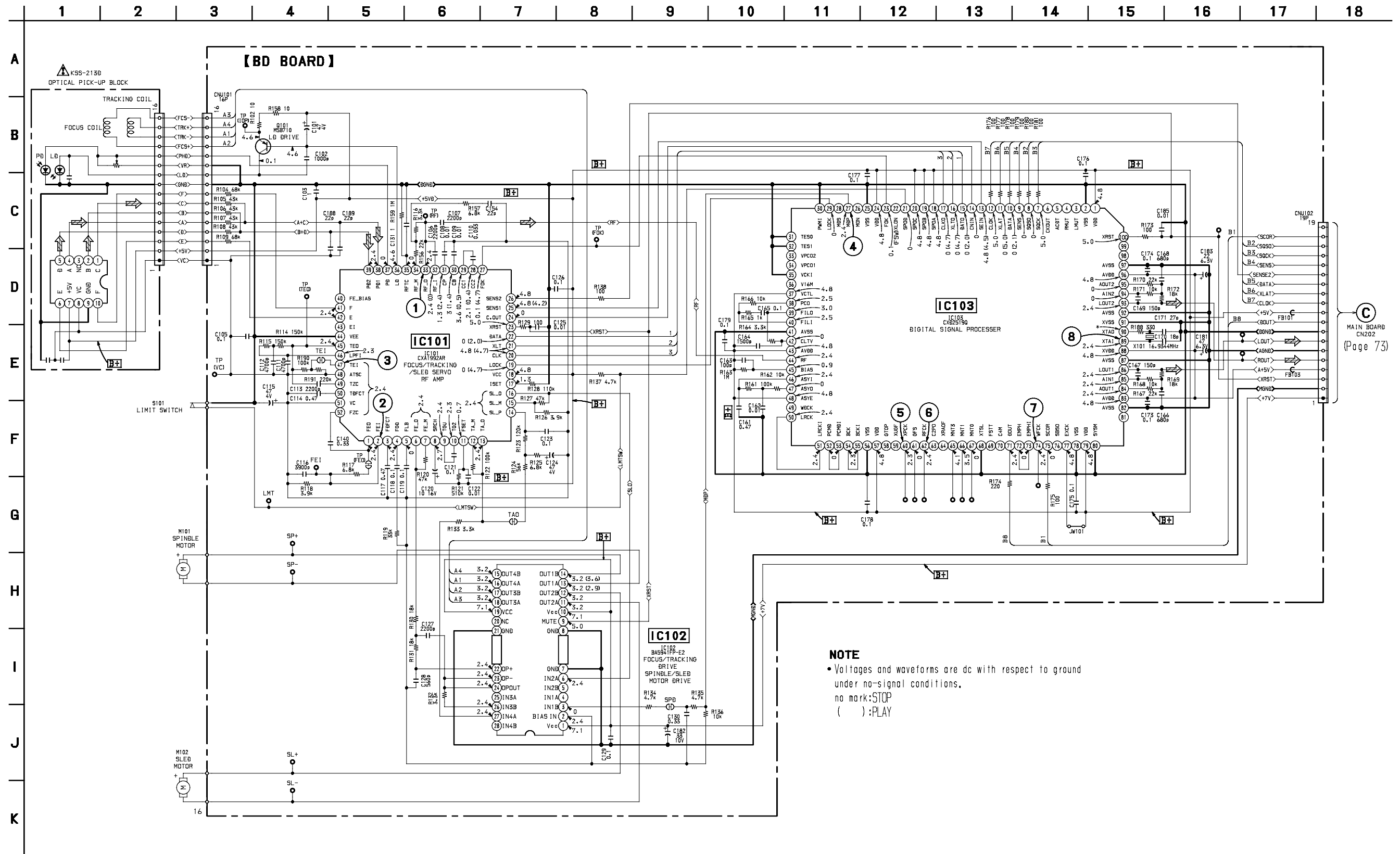
Ref. No.	Location
IC101	C-5
IC102	B-5
IC103	C-6
Q101	C-3



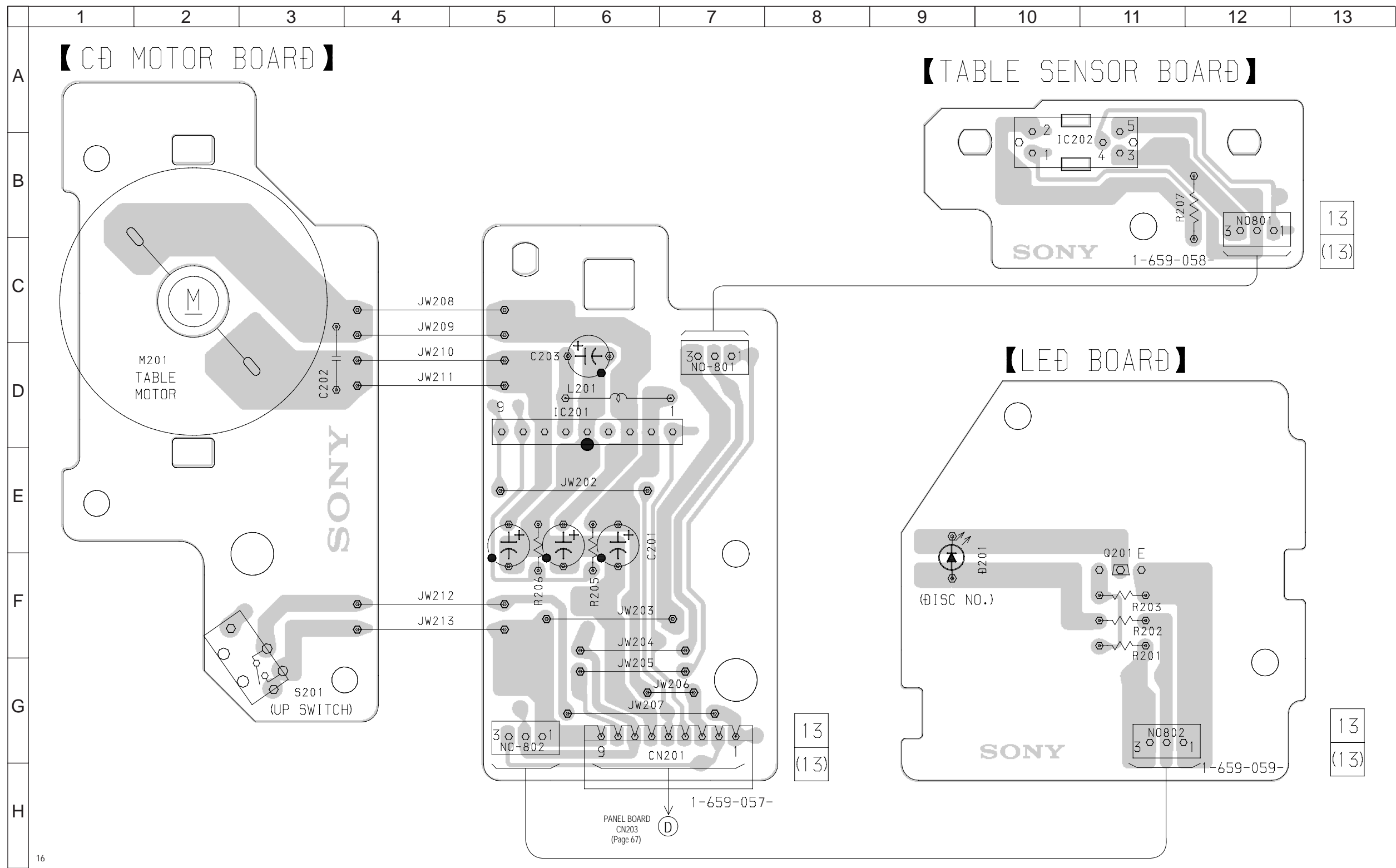
• Indication of transistor



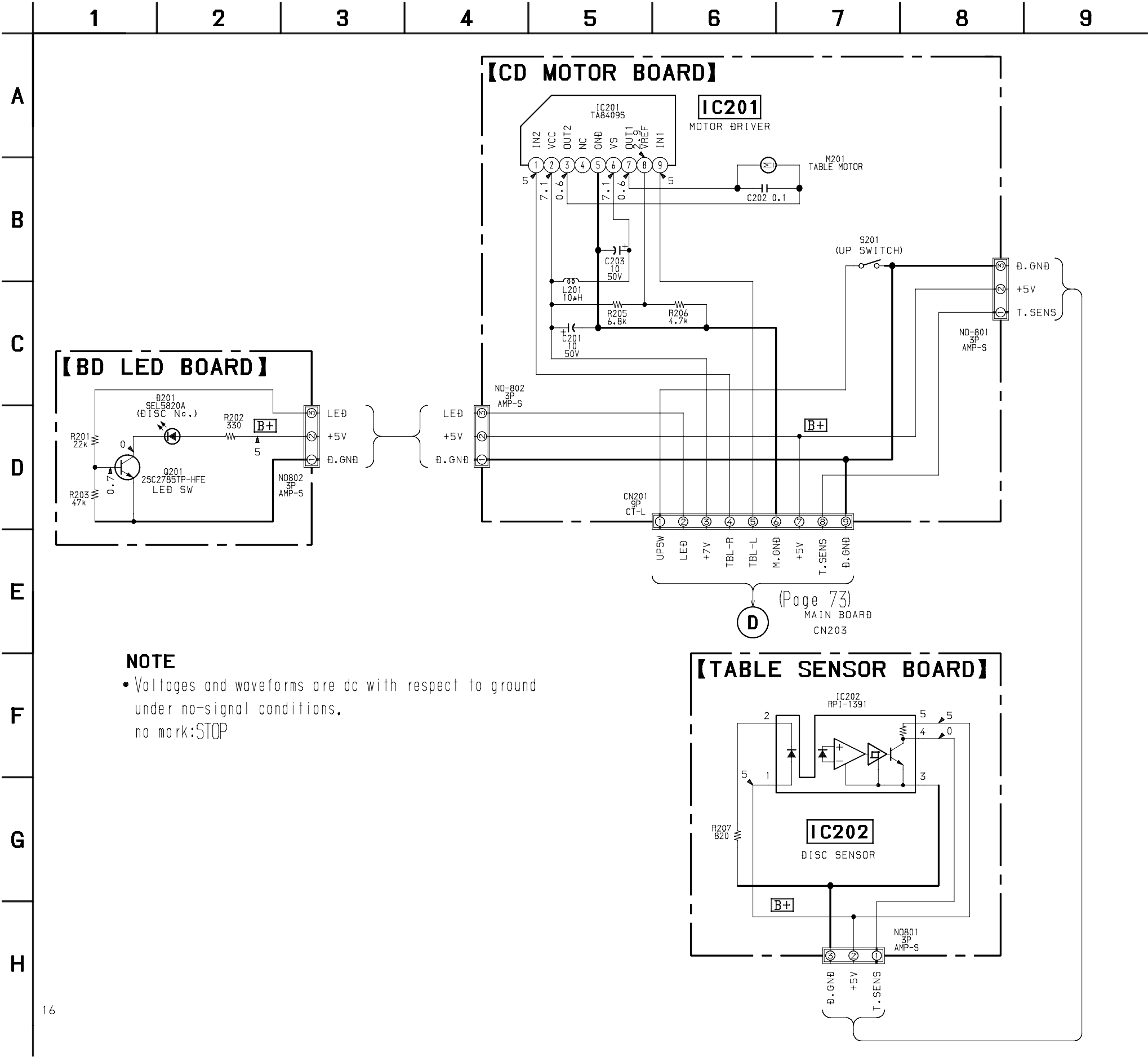
6-4. SCHEMATIC DIAGRAM – BD SECTION – • See page 34 for Waveforms. • See page 79 for IC Block Diagrams.



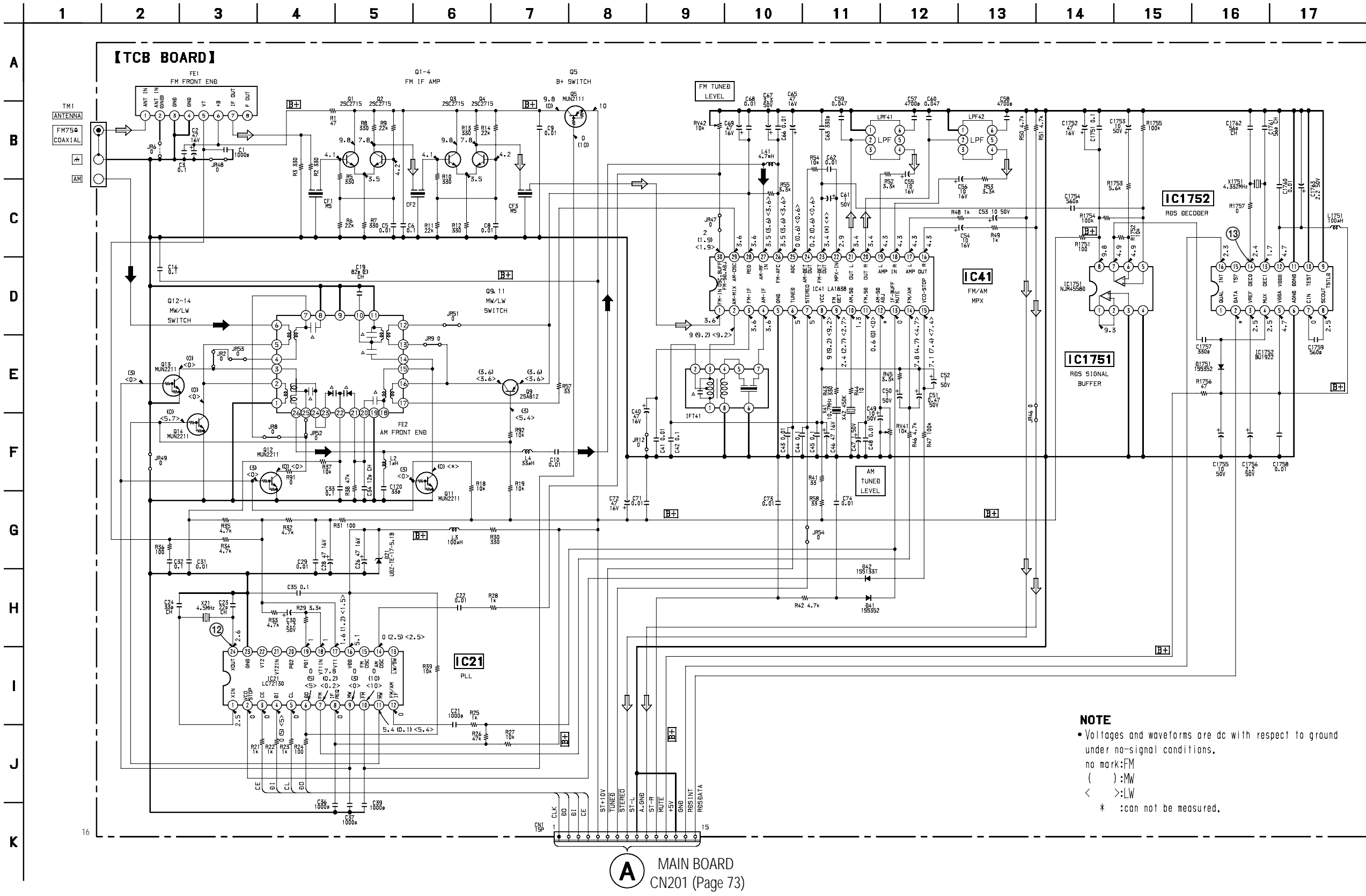
6-5. PRINTED WIRING BOARD – CD MOTOR SECTION – • See page 25 for Circuit Boards Location.



6-6. SCHEMATIC DIAGRAM – CD MOTOR SECTION –

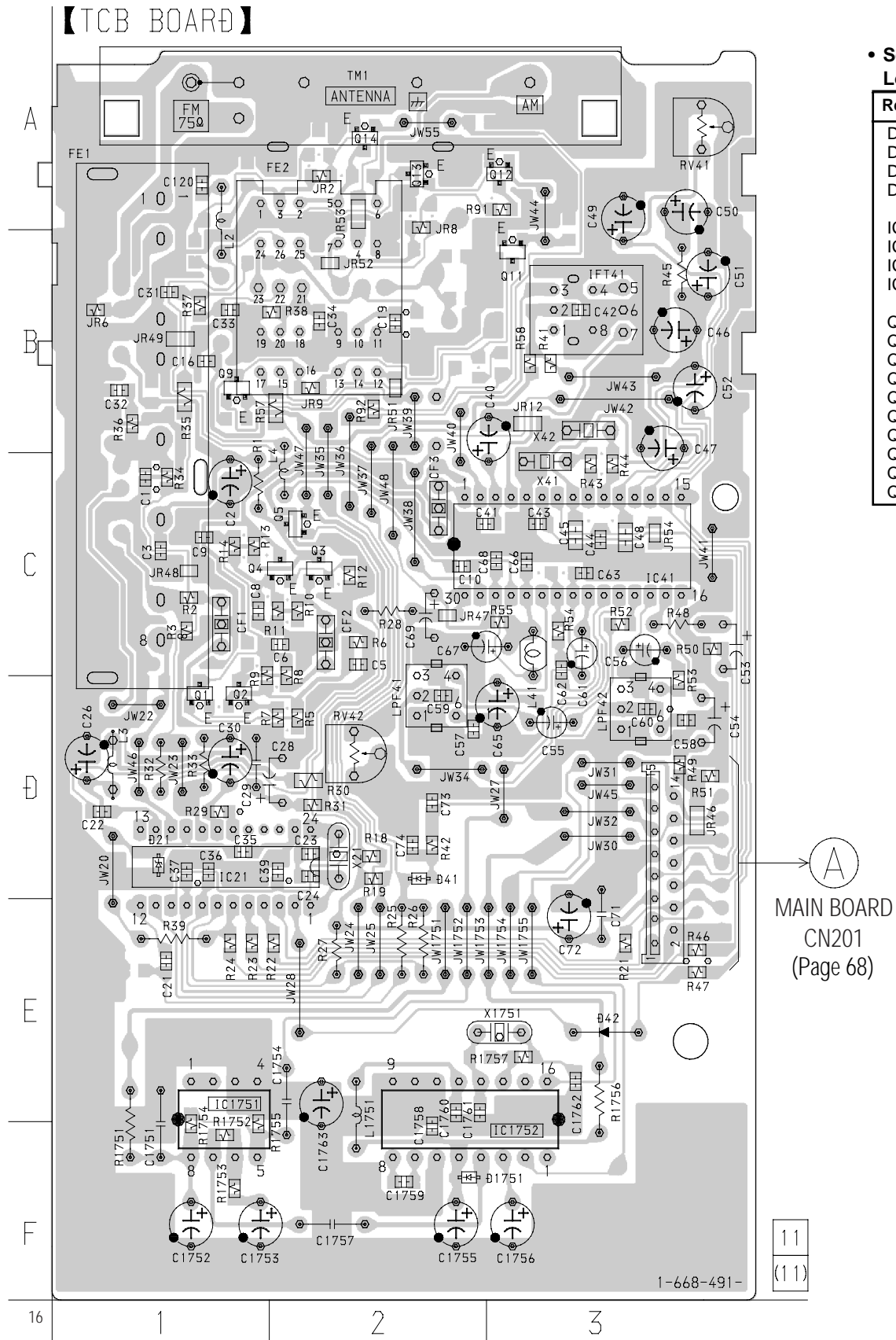


6-7. SCHEMATIC DIAGRAM – TUNER SECTION – (AEP, UK model) • See page 34 for Waveforms. • See page 83 for IC Block Diagrams.

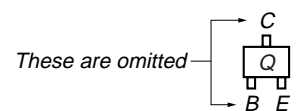


6-8. PRINTED WIRING BOARD – TUNER SECTION (AEP, UK Model) –

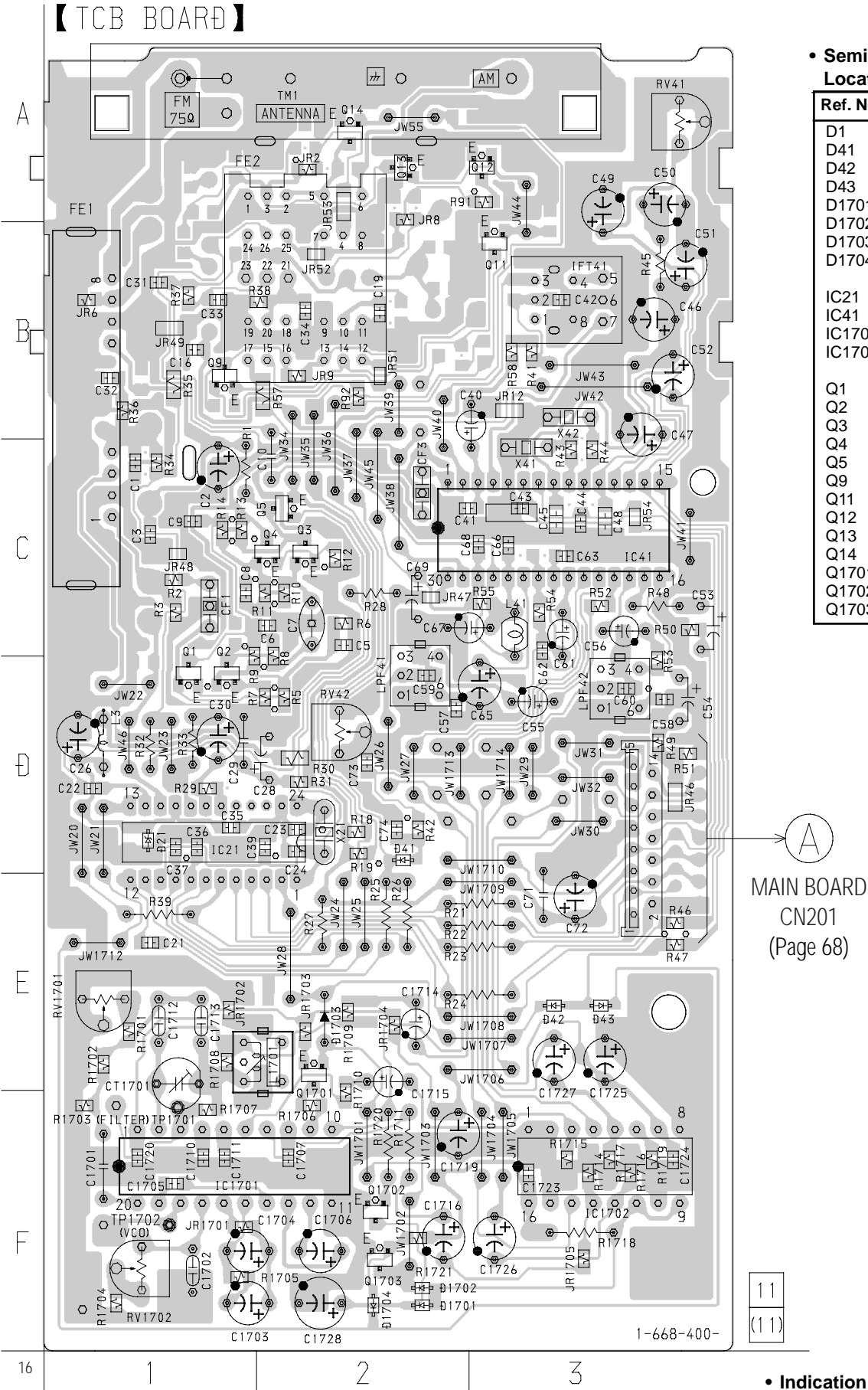
• See page 25 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D21	D-1
D41	D-2
D42	E-3
D1751	F-2
IC21	D-1
IC41	C-3
IC1751	E-1
IC1752	F-3
Q1	D-1
Q2	D-1
Q3	C-2
Q4	C-2
Q5	C-2
Q9	B-1
Q11	B-3
Q12	A-3
Q13	A-2
Q14	A-2

• **Indication of transistor**

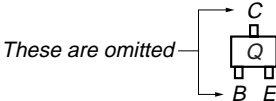
6-9. PRINTED WIRING BOARD – TUNER SECTION (East European, CIS Model) –
• See page 25 for Circuit Boards Location.



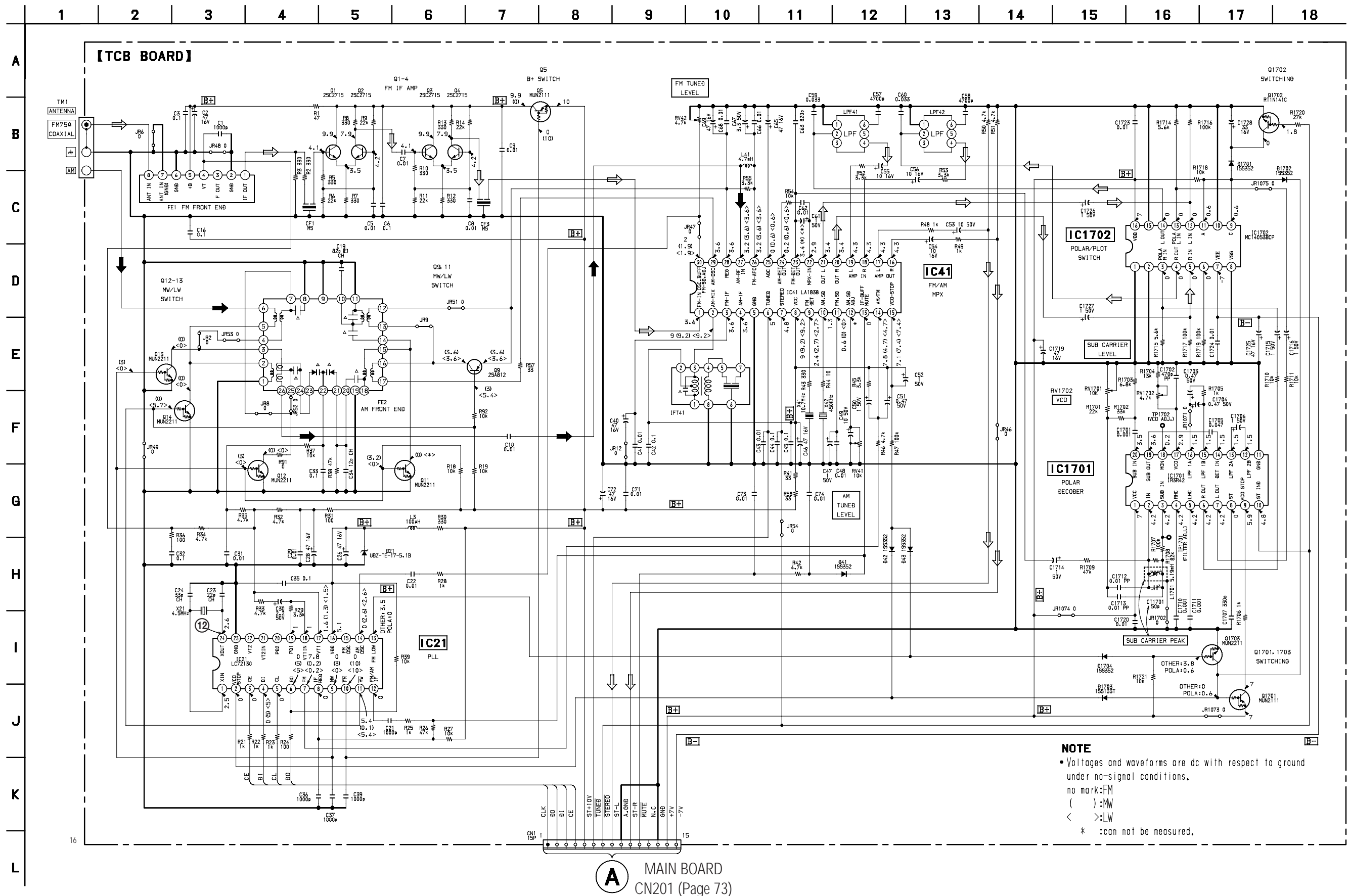
• Semiconductor Location

Ref. No.	Location
D1	D-1
D41	D-2
D42	E-3
D43	E-3
D1701	F-2
D1702	F-2
D1703	E-2
D1704	F-2
IC21	D-1
IC41	C-3
IC1701	F-1
IC1702	F-3
Q1	D-1
Q2	D-1
Q3	C-2
Q4	C-2
Q5	C-2
Q9	B-1
Q11	B-3
Q12	A-3
Q13	A-2
Q14	A-2
Q1701	E-2
Q1702	F-2
Q1703	F-2

• Indication of transistor



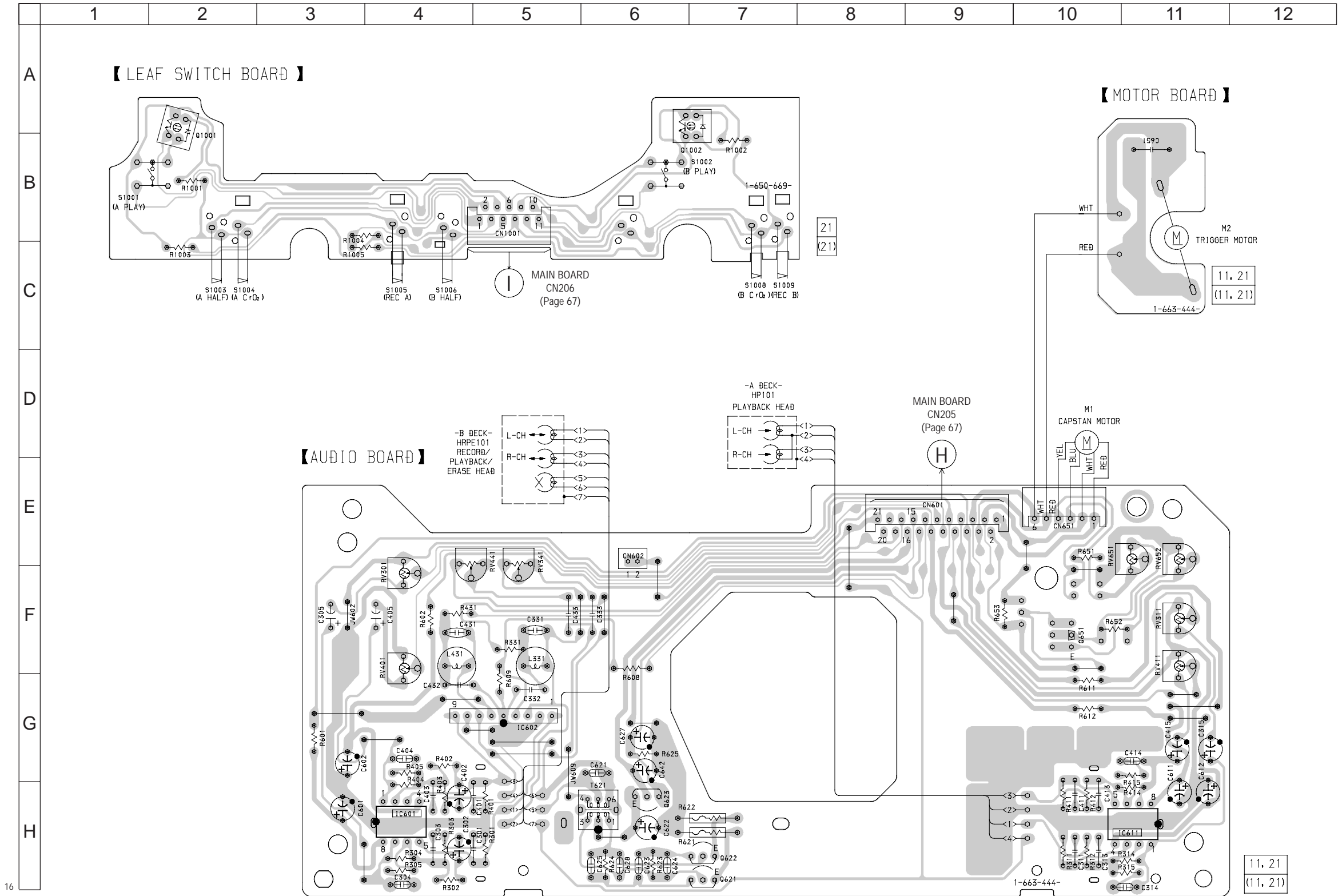
6-10. SCHEMATIC DIAGRAM – TUNER SECTION – (East European, CIS model) • See page 34 for Waveforms. • See page 83 for IC Block Diagrams.



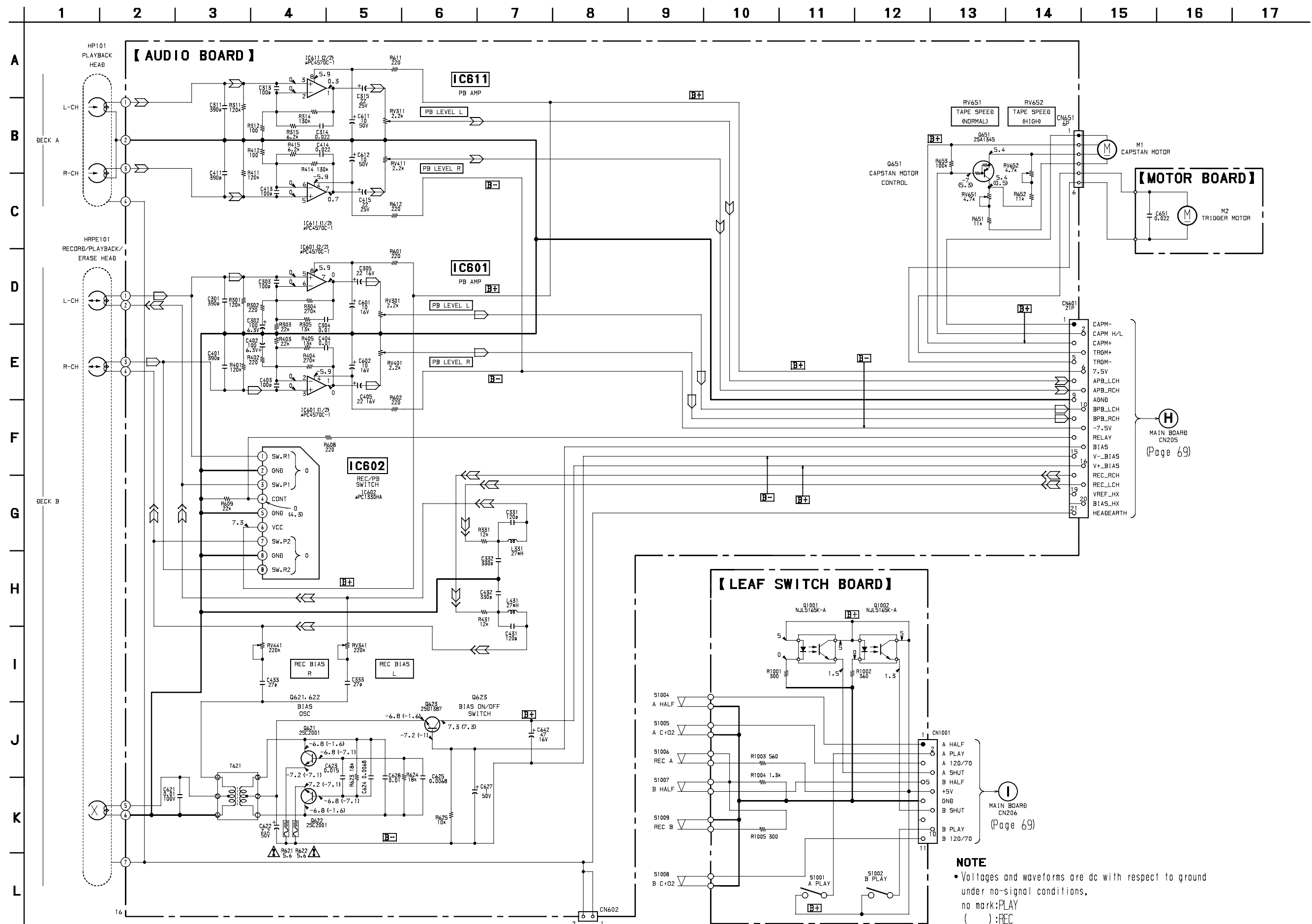
6-11. PRINTED WIRING BOARD – DECK SECTION – • See page 25 for Circuit Boards Location.

• Semiconductor Location

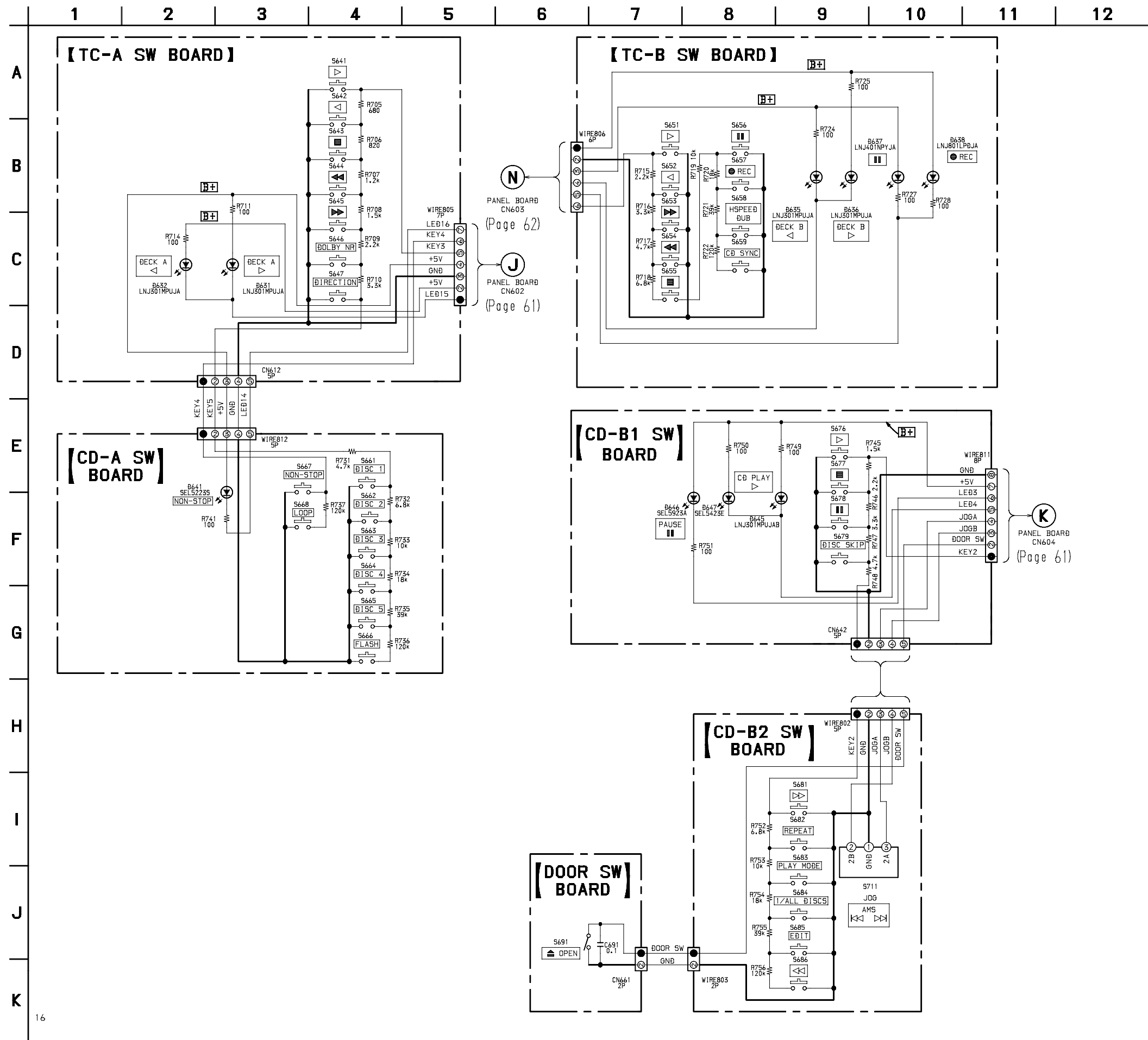
Ref. No.	Location
IC601	H-4
IC602	G-5
IC611	H-11
Q621	H-7
Q622	H-7
Q623	H-6
Q651	F-10
Q1001	A-2
Q1002	A-7



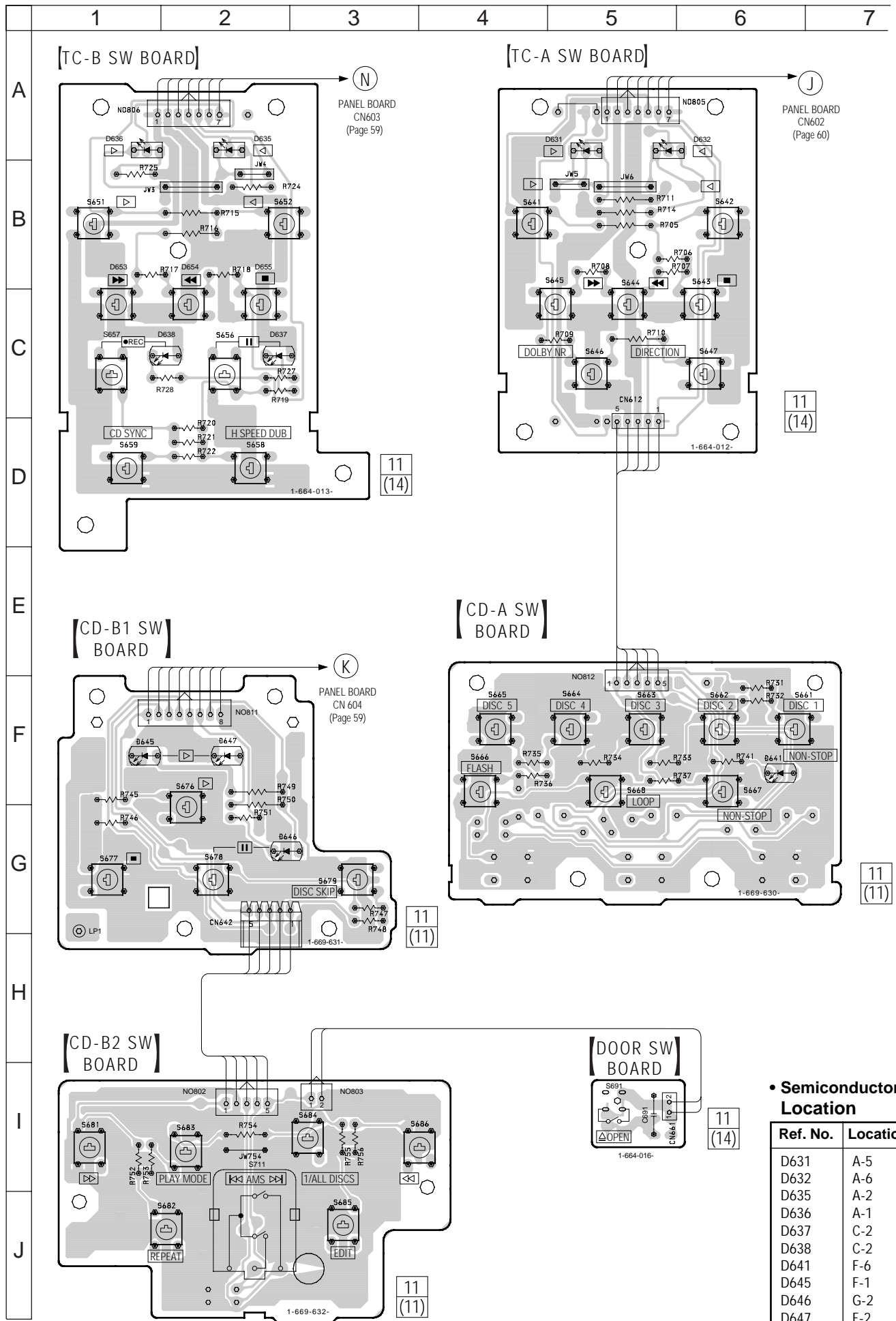
6-12. SCHEMATIC DIAGRAM – DECK SECTION –



6-13. SCHEMATIC DIAGRAM – SWITCH SECTION –



6-14. PRINTED WIRING BOARD – SWITCH SECTION – • See page 25 for Circuit Boards Location.

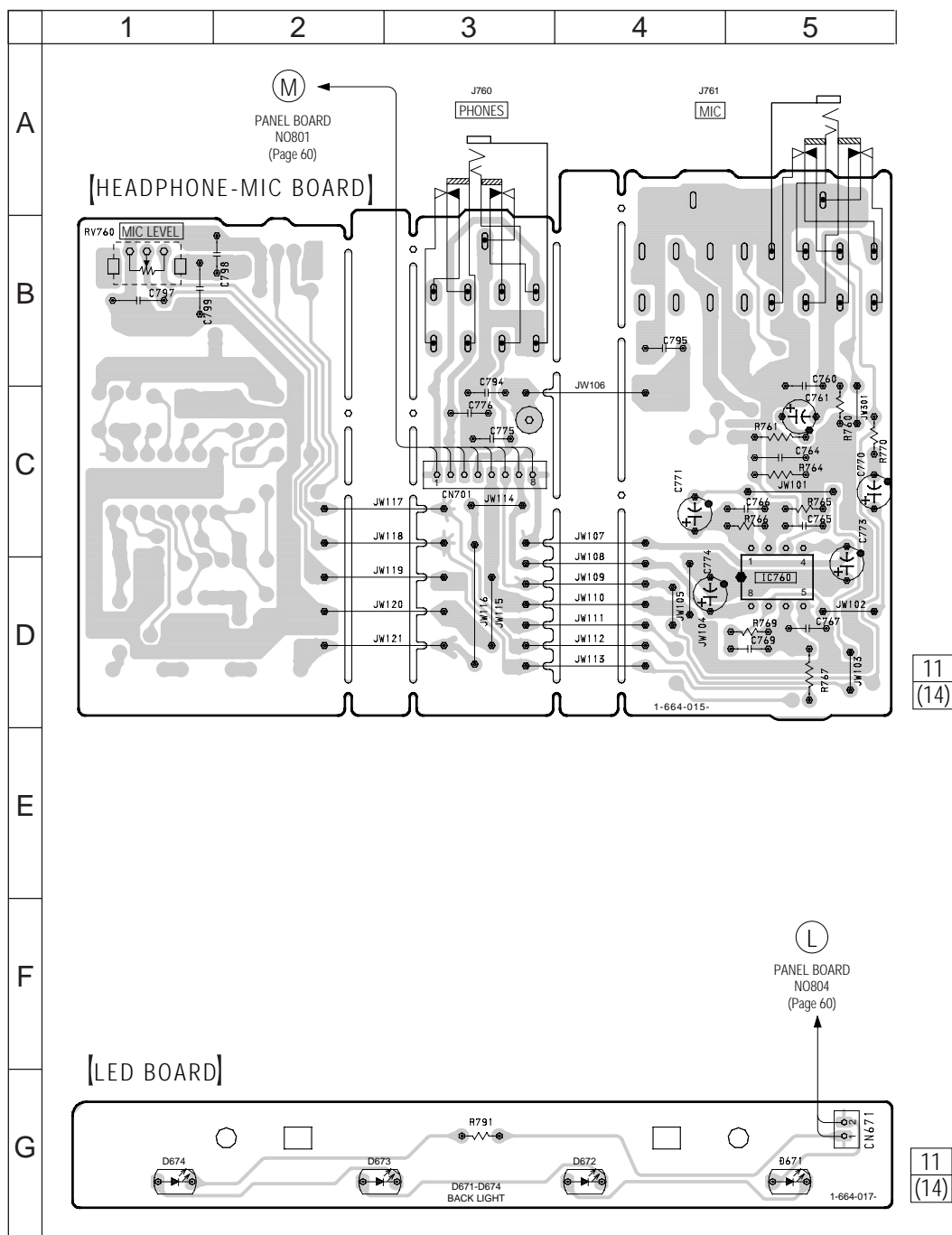


6-15. PRINTED WIRING BOARD – HEADPHONE-MIC SECTION –

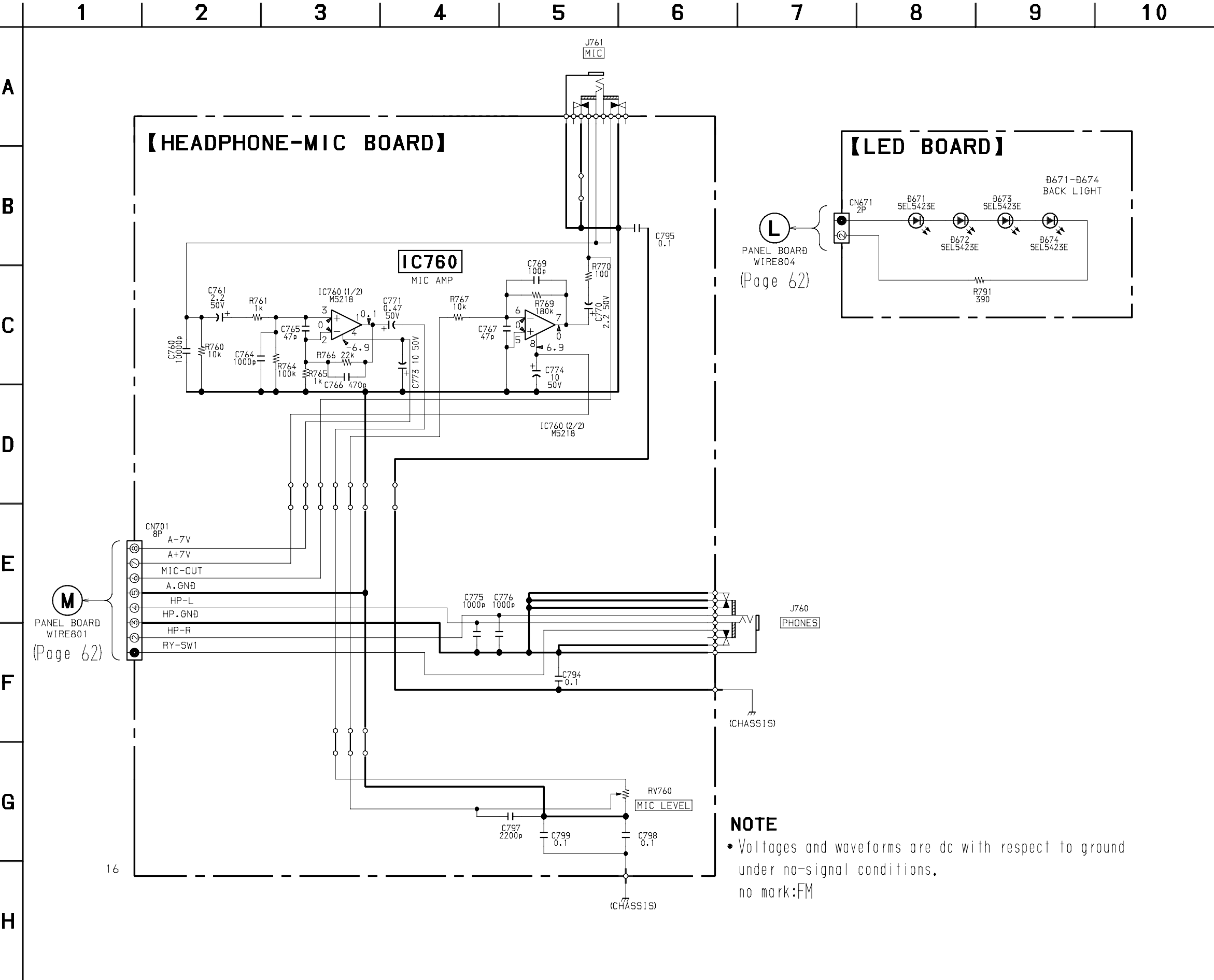
- See page 25 for Circuit Boards Location.

- **Semiconductor Location**

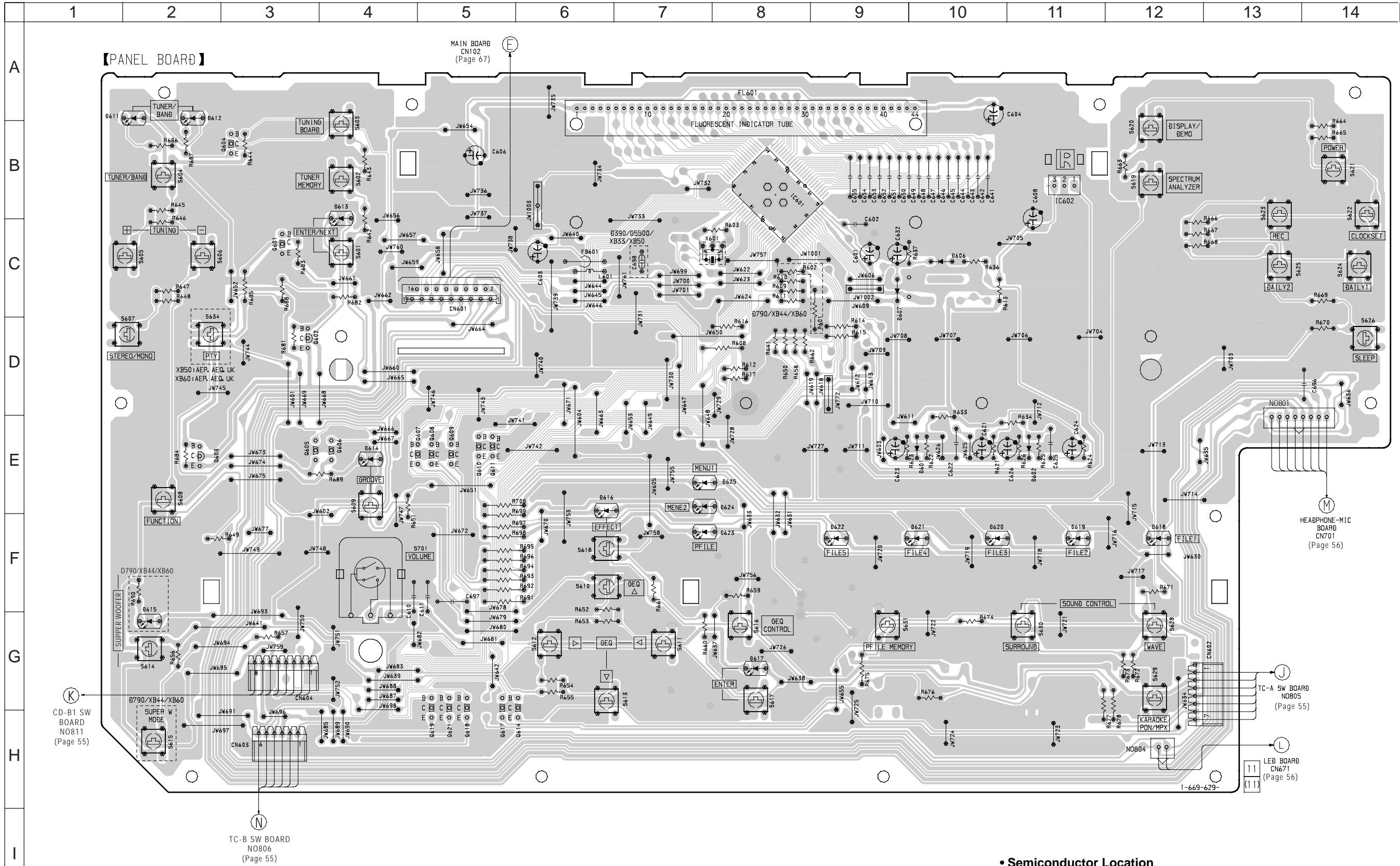
Ref. No.	Location
D671	G-5
D672	G-4
D673	G-2
D674	G-1
IC760	D-5



6-16. SCHEMATIC DIAGRAM – HEADPHONE-MIC SECTION –

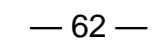


6-17. PRINTED WIRING BOARD – PANEL SECTION – • See page 25 for Circuit Boards Location.

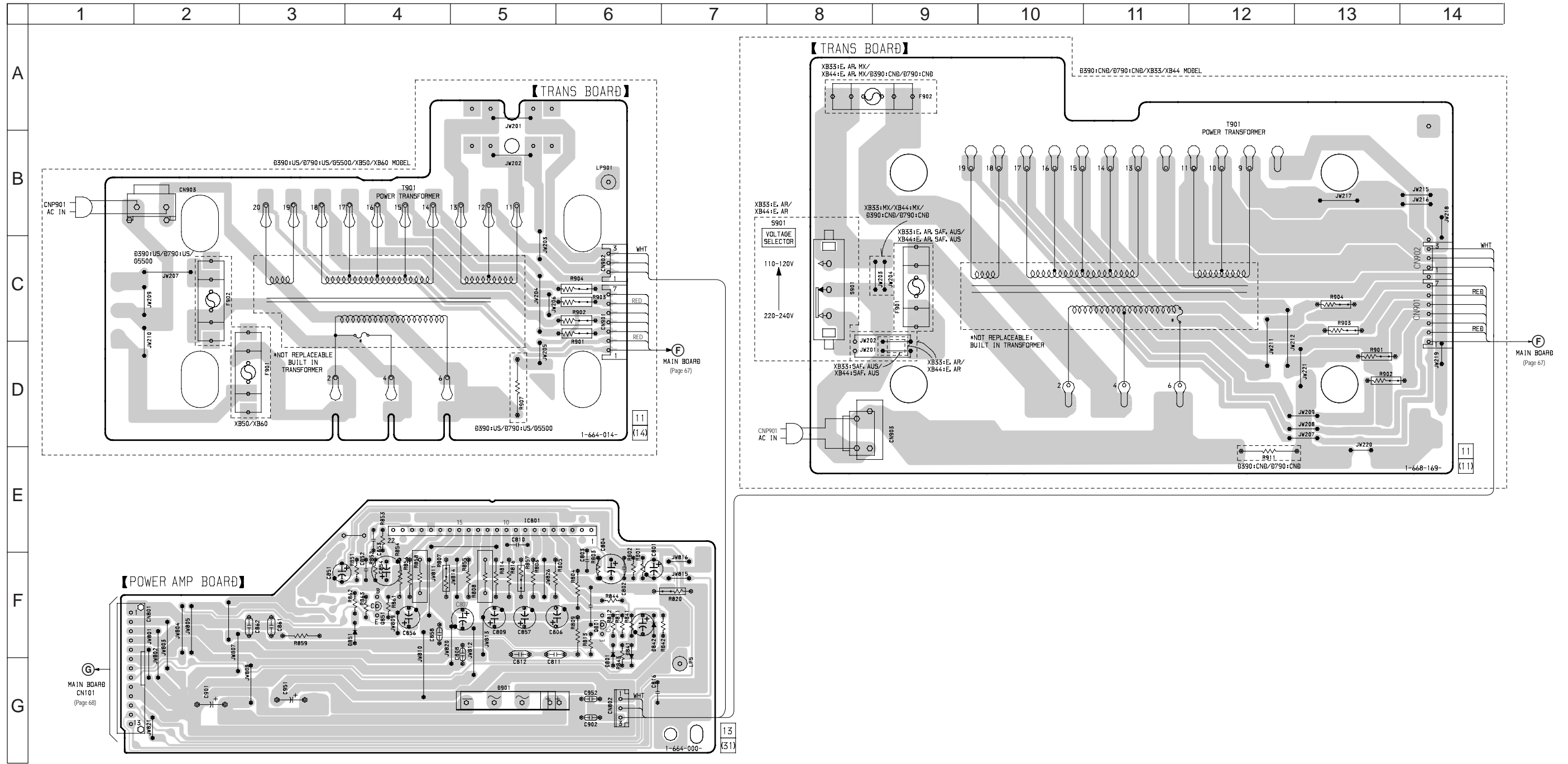


• Semiconductor Location

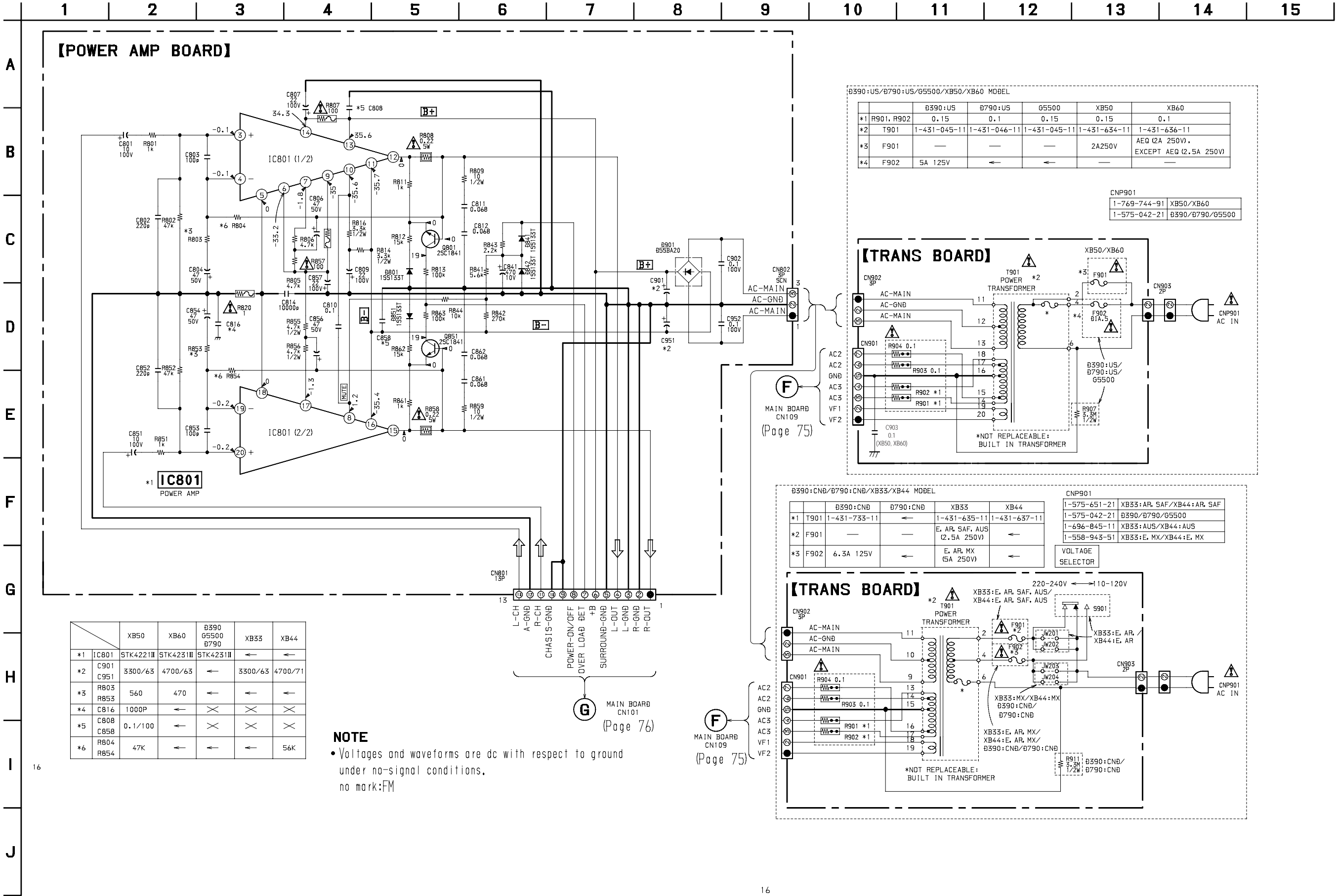
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D601	E-10	D617	G-8	IC601	B-8	Q608	E-5
D602	E-11	D618	F-12	IC602	B-11	Q609	E-5
D606	C-10	D619	F-11			Q610	E-5
D607	C-9	D620	F-10	Q601	B-8	Q611	E-5
D611	A-2	D621	F-10	Q602	D-3	Q614	G-5
D612	A-2	D622	F-9	Q603	E-2	Q617	G-5
D613	C-4	D623	F-7	Q604	B-3	Q618	G-5
D614	E-4	D624	E-7	Q605	E-3	Q619	G-5
D615	G-2	D625	E-7	Q606	E-4	Q621	G-5
D616	E-6			Q607	E-4		

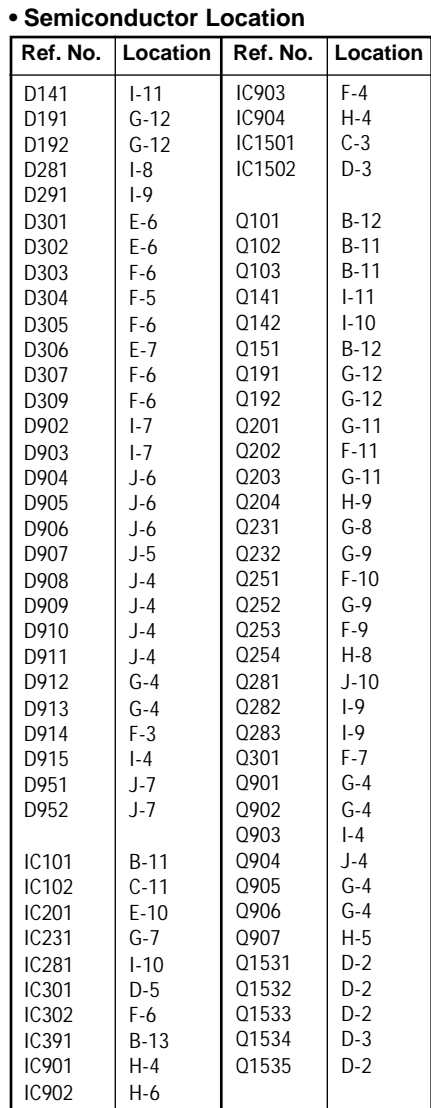


6-19. PRINTED WIRING BOARD – POWER SECTION – • See page 25 for Circuit Boards Location.

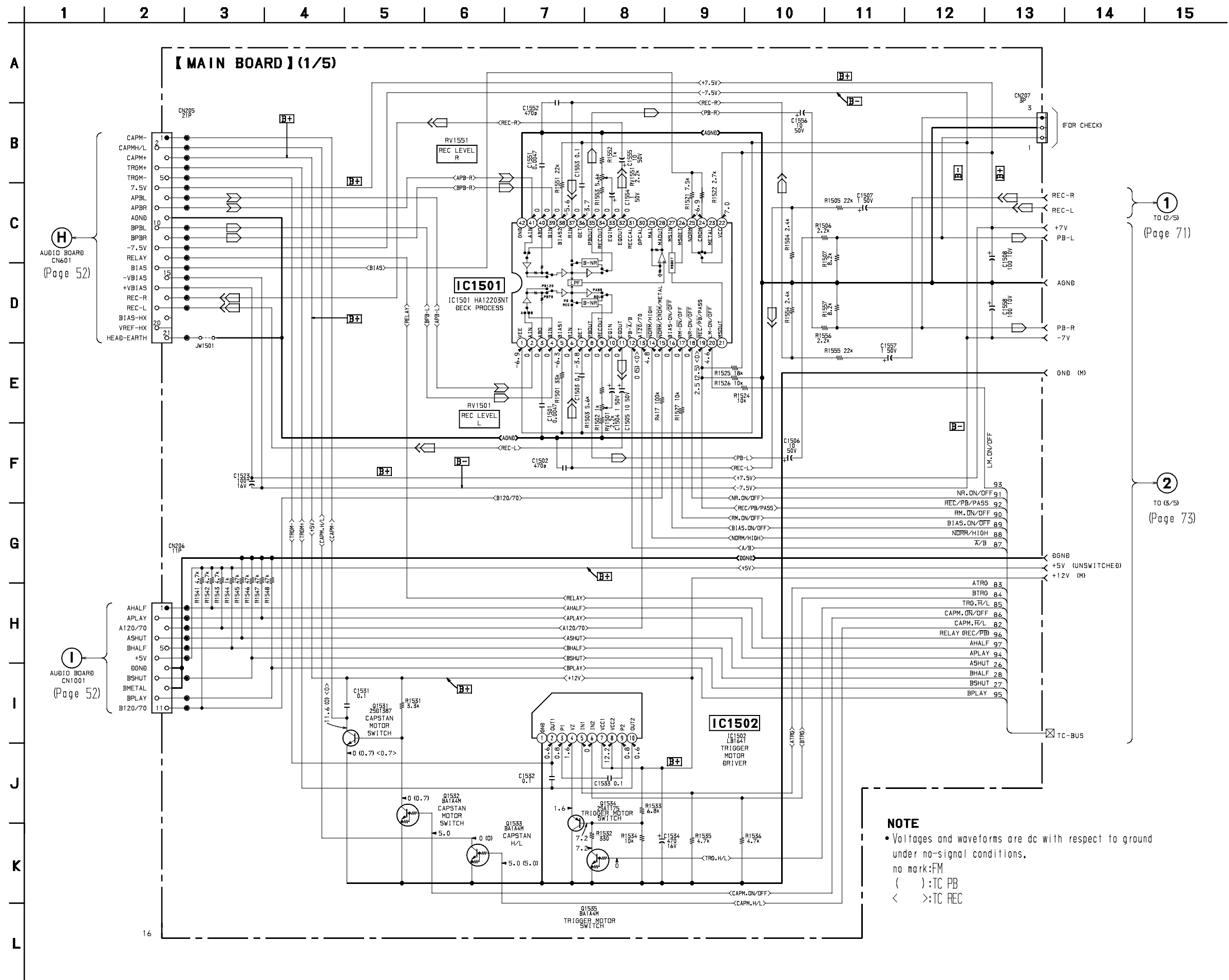


6-20. SCHEMATIC DIAGRAM – POWER SECTION –

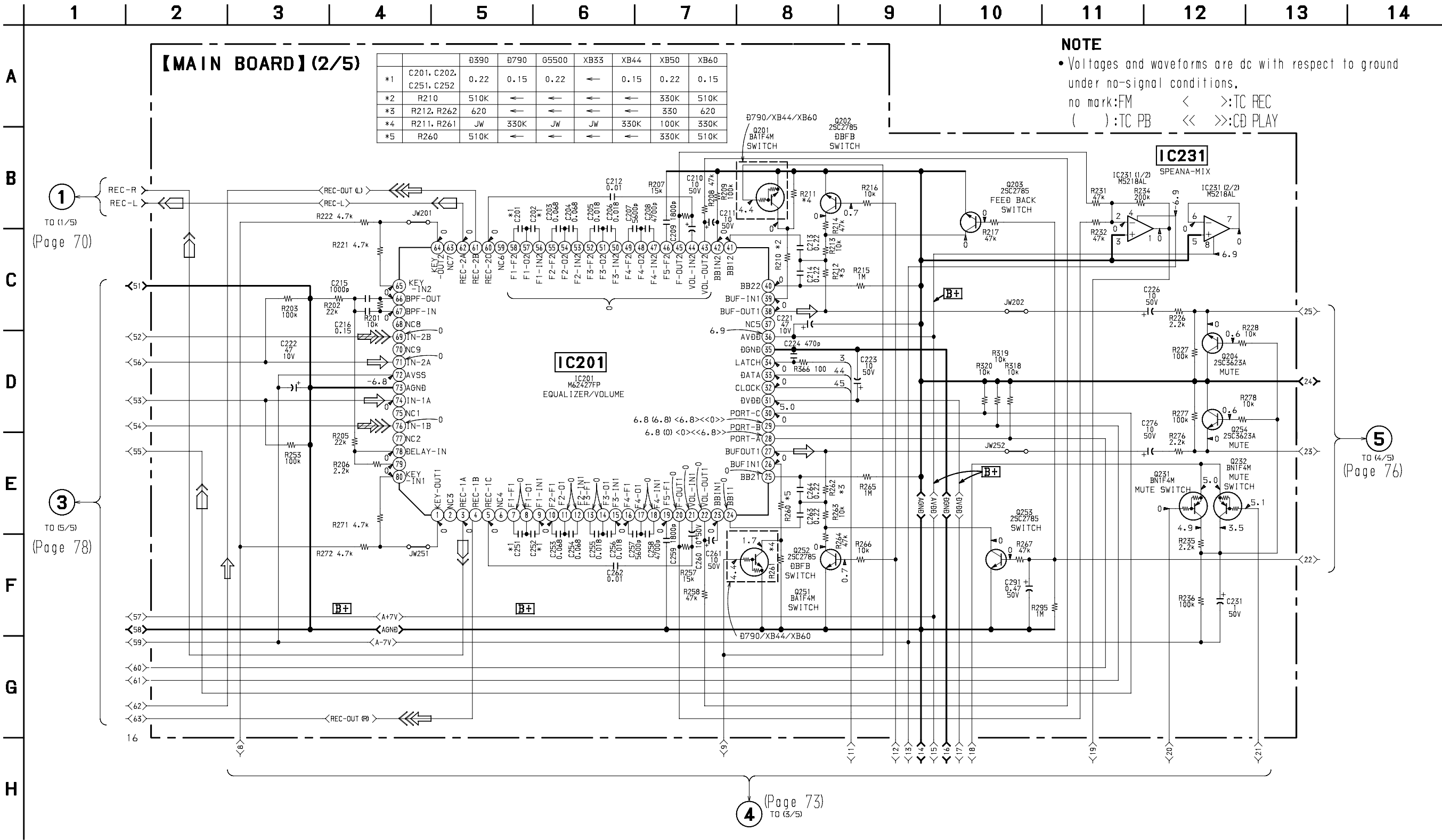


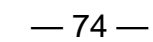


6-22. SCHEMATIC DIAGRAM – MAIN SECTION (1/5) – • See page 82 for IC Block Diagrams.

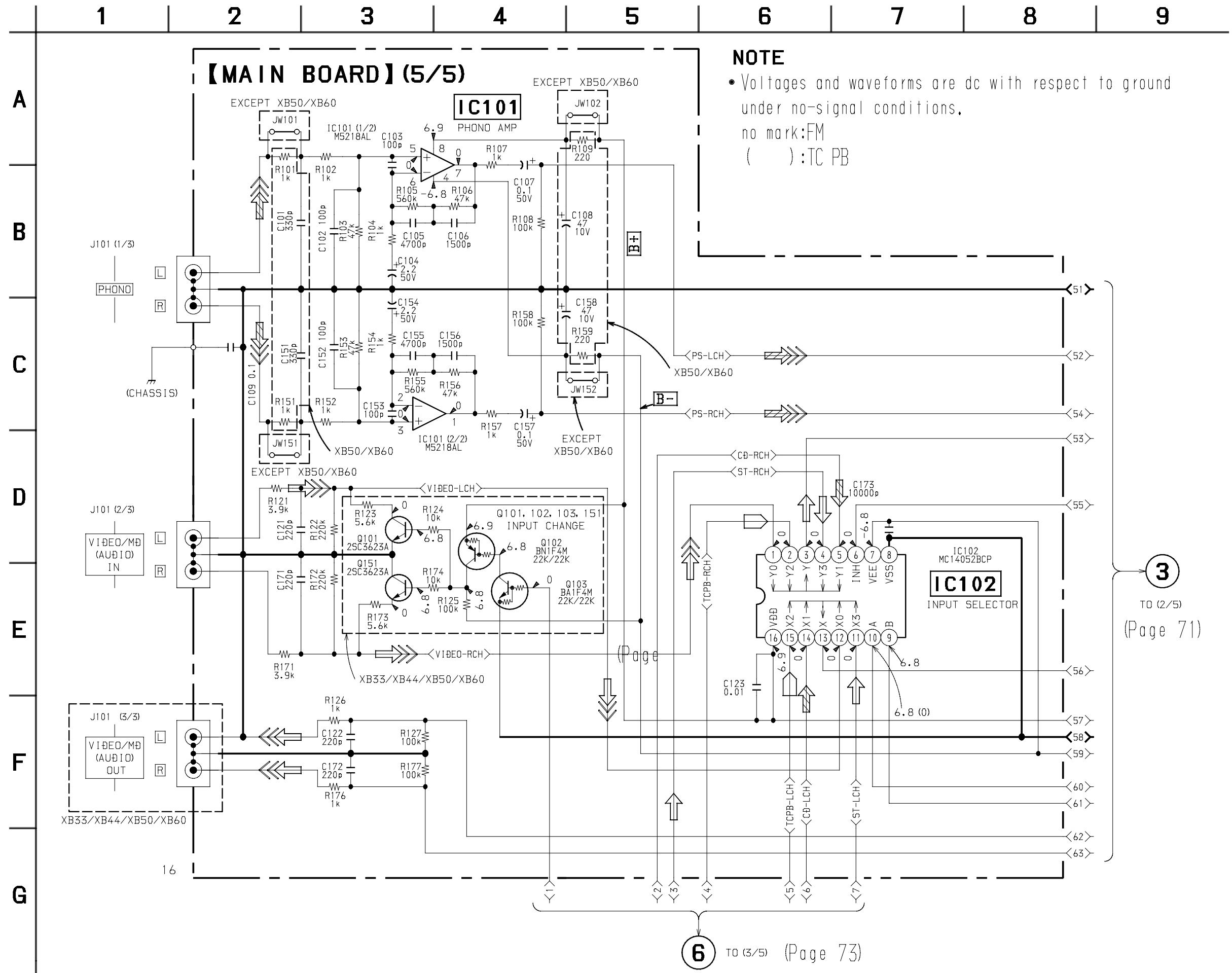


6-23. SCHEMATIC DIAGRAM – MAIN SECTION (2/5) – • See page 81 for IC Block Diagrams.



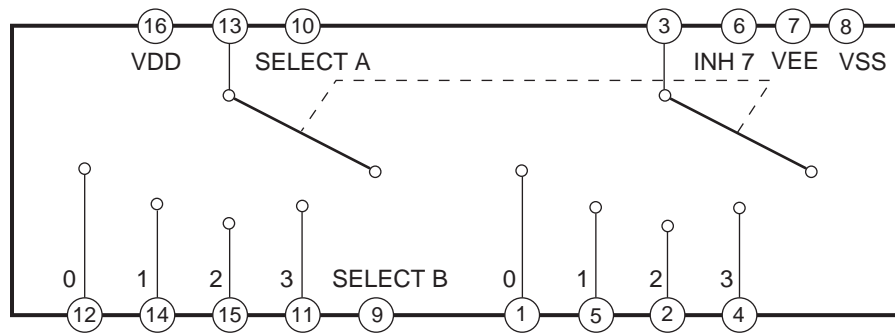


6-26. SCHEMATIC DIAGRAM – MAIN SECTION (5/5) – • See page 82 for IC Block Diagrams.

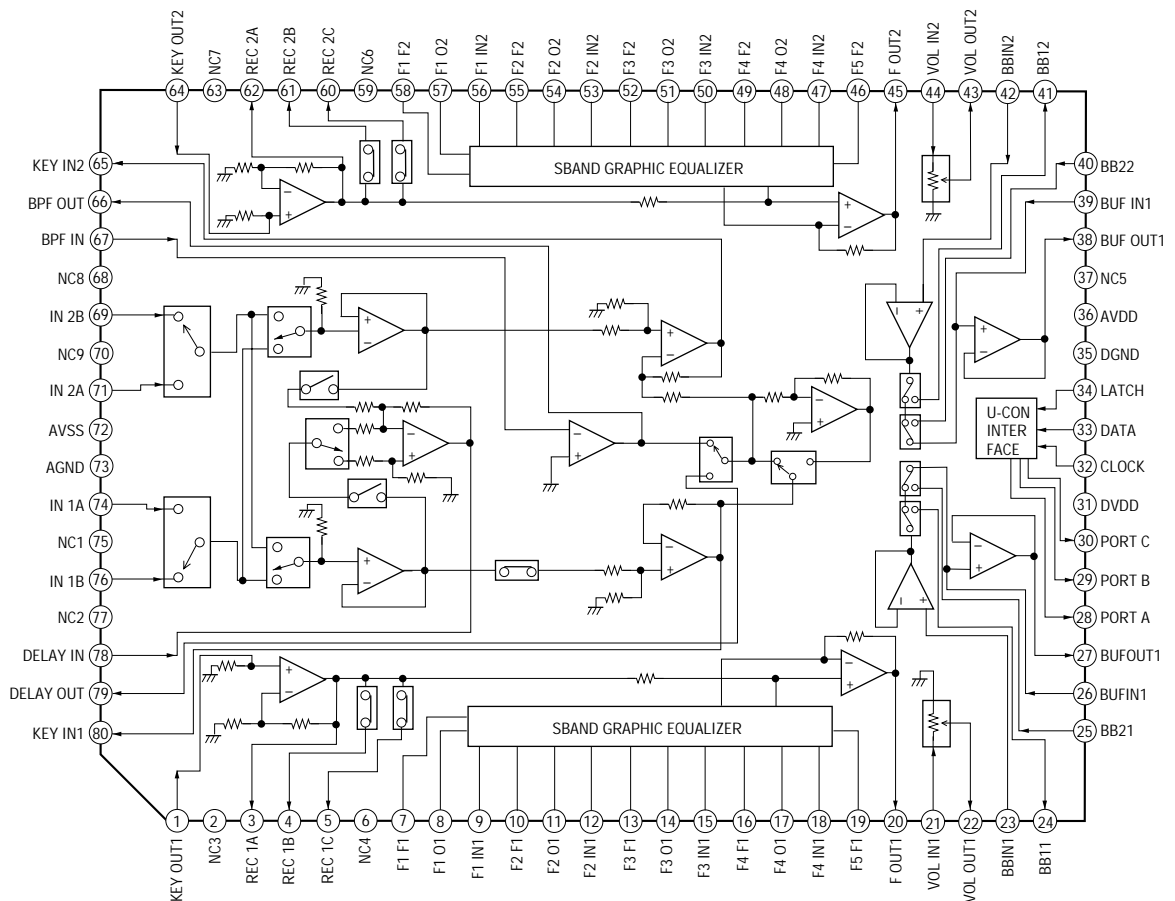


– MAIN SECTION –

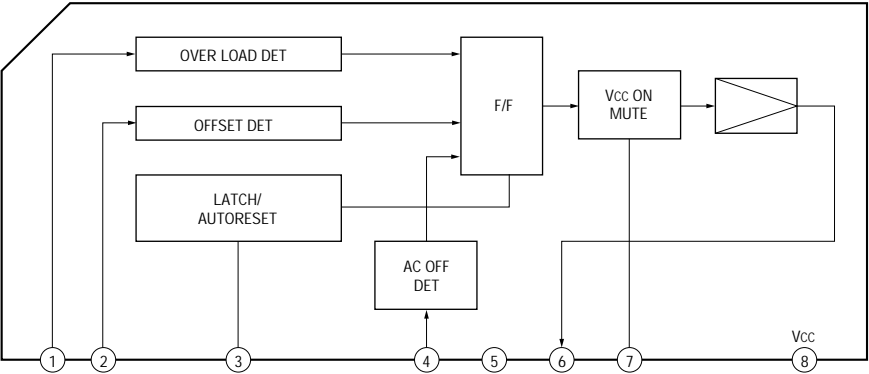
IC102 MC14052BCP



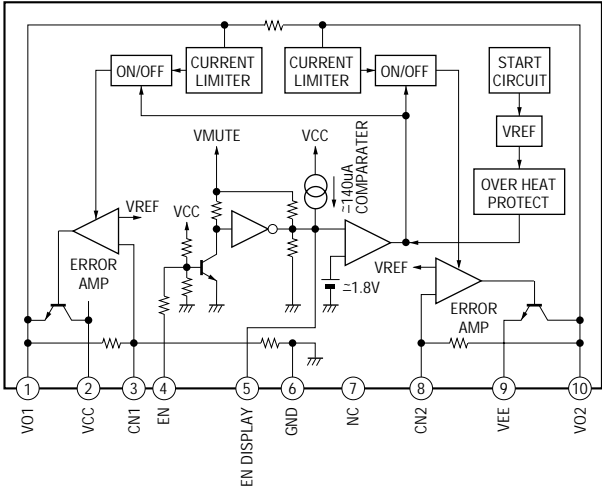
IC201 M62427FP



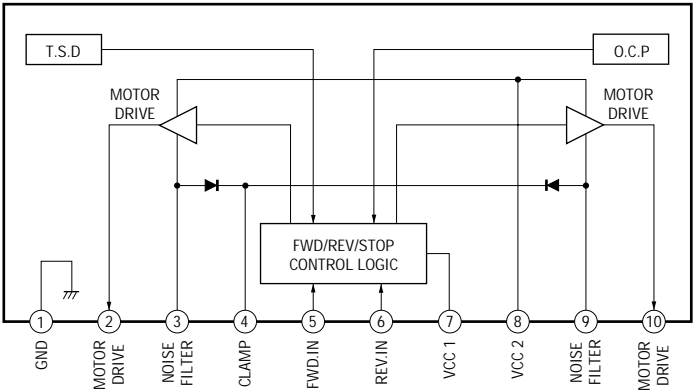
IC281 UPC1237HA



IC901 LA5617

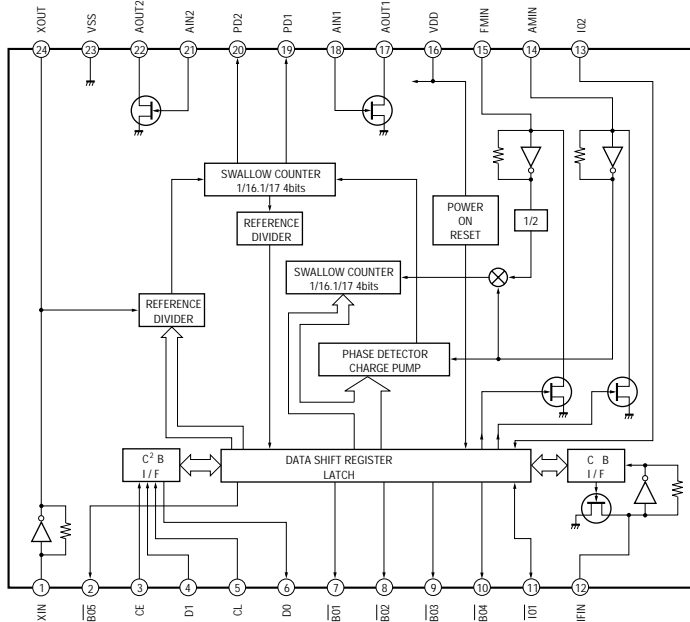


IIC1502 LB1641

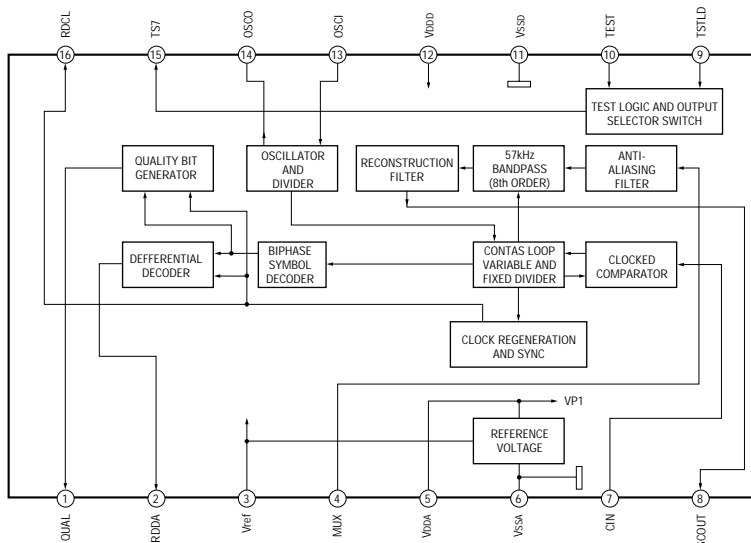


– TUNER SECTION –

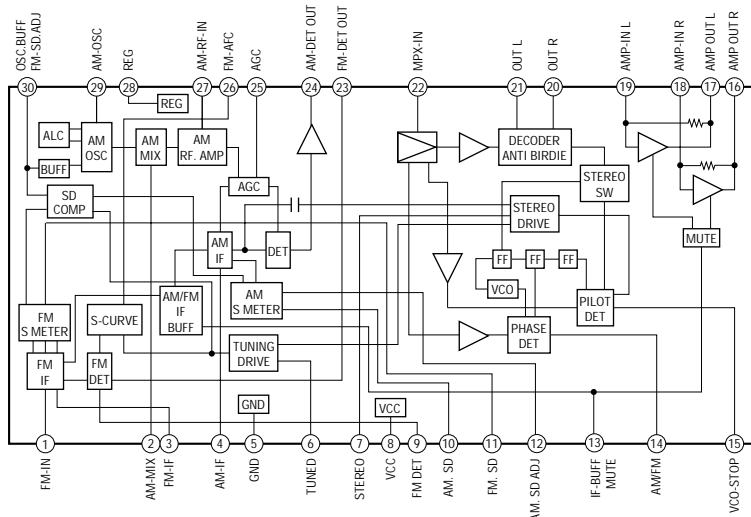
IC21 LC72130



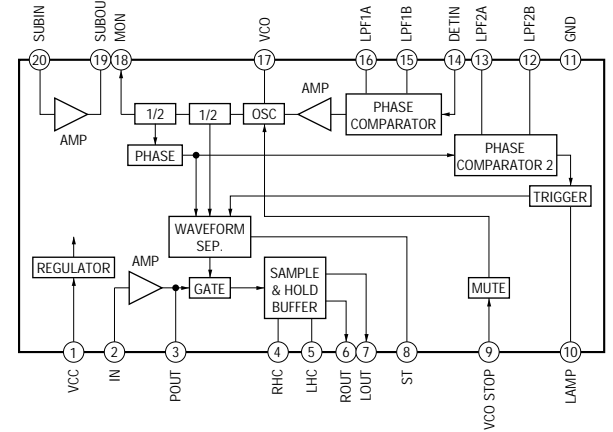
IC1752 BU1922



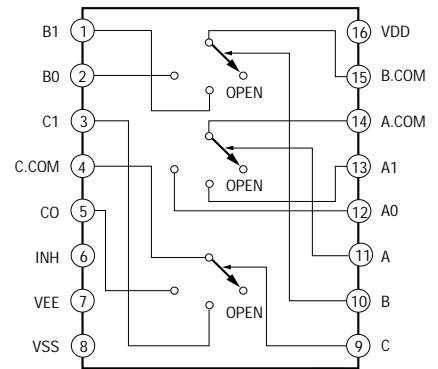
IC41 LA1838



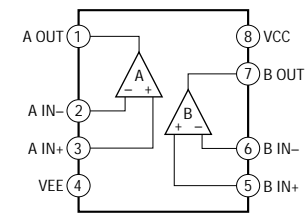
IC1701 IR3R42



IC1702 MC14053BCP



IC1751 NJM4558D



6-28. IC PIN FUNCTION DESCRIPTION

MAIN BOARD IC301 μ PD780018Y (MAIN CONTROL)

Pin No.	Pin Name	I/O	Function
1	TA-MUTE	O	Line mute signal output
2	DBFB-H/L	O	DBFB H/L select signal output
3	427-LT	O	Latch signal output for IC201 (62427)
4	KCON-LT	O	Not used
5	KCON-ON/OFF	O	
6	F-RELAY	O	Front speaker relay control output
7	R-RELAY	O	Not used
8	PL-RELAY	O	
9	TEST	I	Connected ground
10	X2	O	X'tal (5MHz)
11	X1	I	
12	VDD	–	Power supply (+5V)
13	XT2	O	X'tal (32.768 KHz)
14	XT1	I	
15	RESET	I	Reset signal input
16	INT/IN	I	Connected ground
17	INT/IN/OUT	I	
18	SCOR	O	Sub code data request signal output
19	SOFT-TEST	O	Software test port
20	AC-CUT	I	Back up signal input
21	RDS-INT	I	RDS signal input
22	RDS-DATA	I	RDS data input
23	VDD	–	Power supply (+5V)
24	AVDD	I	Analog reference voltage input
25	ADJ	I	CD adjust point port
26	A-SHUT	I	A Deck reel pulse detector
27	B-SHUT	I	B Deck reel pulse detector
28	B-HALF	I	Half detector signal input
29	CLK-CHECK	I	Connected ground
30	SPEC-IN	I	Version select signal input
31	ADJ 2	I	Connected ground
32	DEMO-CHANGE	I	DEMO H/L select signal input
33	AVss	–	Ground
34	SQ-DATA-IN	I	Sub code Q data input
35	—	–	Not used
36	SQ-CLK	I	Sub code Q data clock input
37	SW-ON/OFF	O	Not used
38, 39	FUNC 1, 2	I	Connected ground
40	Vss	–	Ground
41	VOL-LAT	O	Not used
42	PL-LAT	O	
43	COM-DIN	I	Connected ground
44	COM-DOU	O	Common serial data output
45	COM-CLK	O	Common serial clock output
46	CD-POWER	O	CD power on signal output
47	CD-DATA	O	CD data output
48	CD-CLOK	O	CD clock output
49	MSM-CMD	O	Not used
50	MSM-BUSY	I	Connected ground

Pin No.	Pin Name	I/O	Function
51	MSM-LT	O	Not used
52	MSM-NAR	I	
53	MSM-CH	O	
54	INPUT-CHANGE	O	Not used
55	11C-DATA	O	Data output for IC601
56	11C-CLK	O	Clock output for IC601
57	XRST	O	CD reset signal output
58	XLT	O	CD latch signal output
59	FOUCUS-SW	O	Not used
60	TBL-L	O	Table motor control output
61	TBL-R	O	
62	TRAY-LED	O	CD tray LED ON/OFF output
63	LOAD-OUT	O	Not used
64	LOAD-IN	O	
65	ST-CLK	O	Tuner clock output
66	ST-DIN	I	Tuner data input
67	ST-DOUT	O	Tuner data output
68	ST-CE	O	Tuner chip enable output
69	TUNED	I	Tuned detection for tuner
70	STEREO	I	Stereo detection for tuner
71	Vss	–	Ground
72	ST-MUTE	O	Tuner mute signal output
73	SENS2	I	BD Condition signal input
74	SENS	I	
75	DISC-SENS	I	Not used
76	T-SENS	I	CD table detection signal input
77	UP-SW	I	Up SW (S201) signal input
78	ENC 3	I	Not used
79	ENC 2	I	
80	ENC 1	I	
81	OUT-OPEN	I	Not used
82	CAP-M-H/N	O	Capstan motor H/N speed select signal output
83	B-TRG	O	Trigger motor control output
84	A-TRG	O	Trigger motor control output
85	TRG-LOW	O	Trigger motor control output
86	CAP-M-ON/OFF	O	Capstan motor ON/OFF signal output
87	PB-A/B	O	PB Deck A/Deck B select output
88	EQ-H/N	O	Equalizer H/N select output
89	BIAS	O	Bias ON/OFF signal output
90	REC-MUTE	O	REC mute ON/OFF selection output
91	NR-ON/OFF	O	NR ON/OFF signal output
92	R/P-PASS	I	REC/PB/PASS selection output
93	TC-MUTE	O	TC mute ON/OFF selection output
94	A-PLAY-SW	I	Deck A play detect
95	B-PLAY-SW	I	Deck B play detect
96	TC-RELAY	O	REC/PB head selection output for IC602
97	A-HALF	I	Deck A cassette detect
98	POWER	O	POWER ON/OFF signal output
99	SW-F-CHG	O	Super woofer mode signal output
100	STK-MUTE	O	Power amp ON/OFF signal output

PANEL BOARD IC601 TMP87CH74 (DISPLAY CONTROL)

Pin No.	Pin Name	I/O	Function
1-6	LED3-LED8	O	LED driver output
7	VSS	—	Ground
8	X-OUT	O	X'tal (8MHz)
9	X-IN	I	
10	RESET	I	Reset signal input from main controller
11	LED 9	O	Connected ground
12	LED10	O	
13	TEST	I	
14-19	LED11-LED19	O	LED driver output
20	VOL-A	I	Rotary encoder (S701 VOLUME) pulse input
21	DOOR SW	I	SOOR SW (S651) ON/OFF signal input
22	JOG-A	I	Rotary encoder (S711 AMS) pulse input
23	CLOCK	I	Serial clock input from main controller
24	DATA	I	Serial data input from main controller
25	LED SELECT	O	LED select signal output
26	MODEL	I	Version select signal input
27-30	KEY1-KEY4	I	Key input
31	SPEANA-3	I	Connected ground
32	L + R	I	Spectrum analyzer (high frequency) input
33	SIRCS	I	Remote commander signal input
34	VOL-B	I	Rotary encoder (S701 VOLUME) pulse input
35	JOG-B	I	Rotary encoder (S711 AMS) pulse input
36	SPEANA-1	I	Spectrum analyzer (Low frequency) input
37	SPEANA-2	I	Spectrum analyzer (Middle frequency) input
38	VASS	—	Ground
39	VAREF	I	Analog reference voltage input
40	VDD	—	Power supply (+5V)
41	—	—	Not used
42-56	GR1-GR15	O	FL gride signal output
57-77	SEG1-SEG77	O	FL segment signal output
78	VKK	—	–30V driving power for FL
79, 80	LED1-LED2	O	LED driver output

SECTION 7 EXPLODED VIEWS

NOTE:

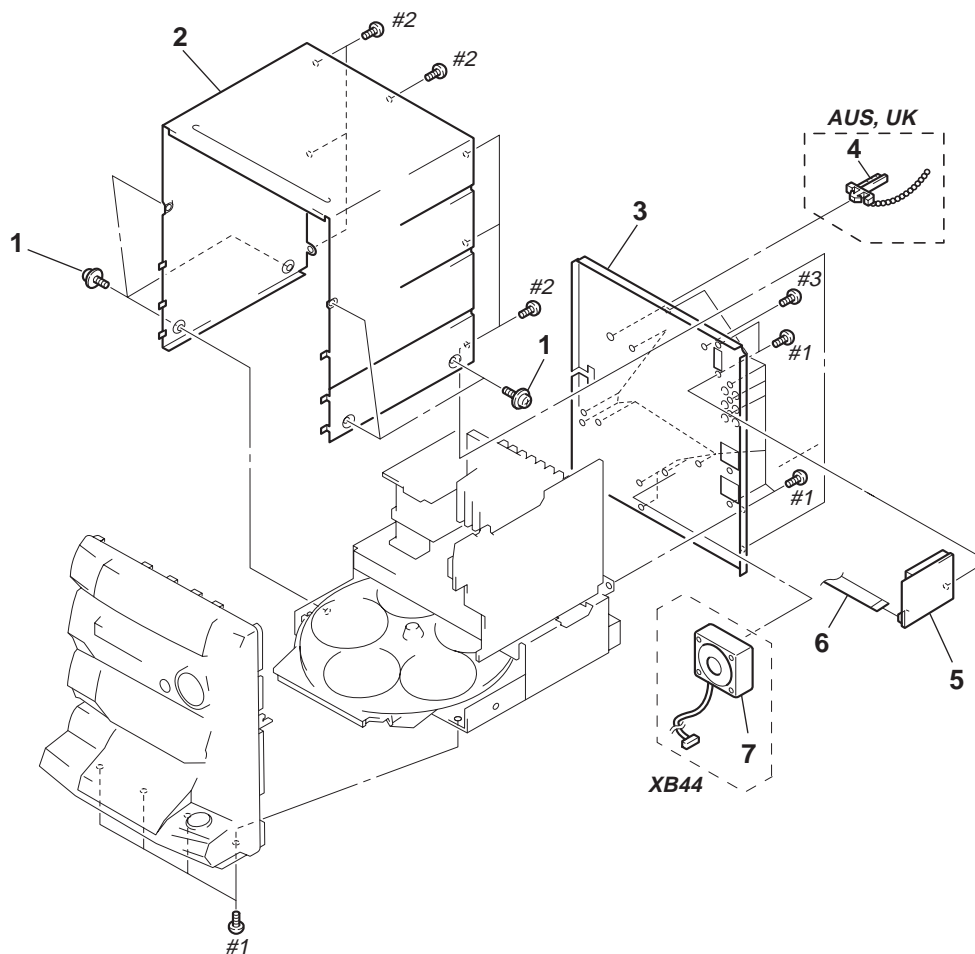
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
AR : Argentine EE : East European
AUS : Australian MX : Mexican
CND : Canadian SAF : South African

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

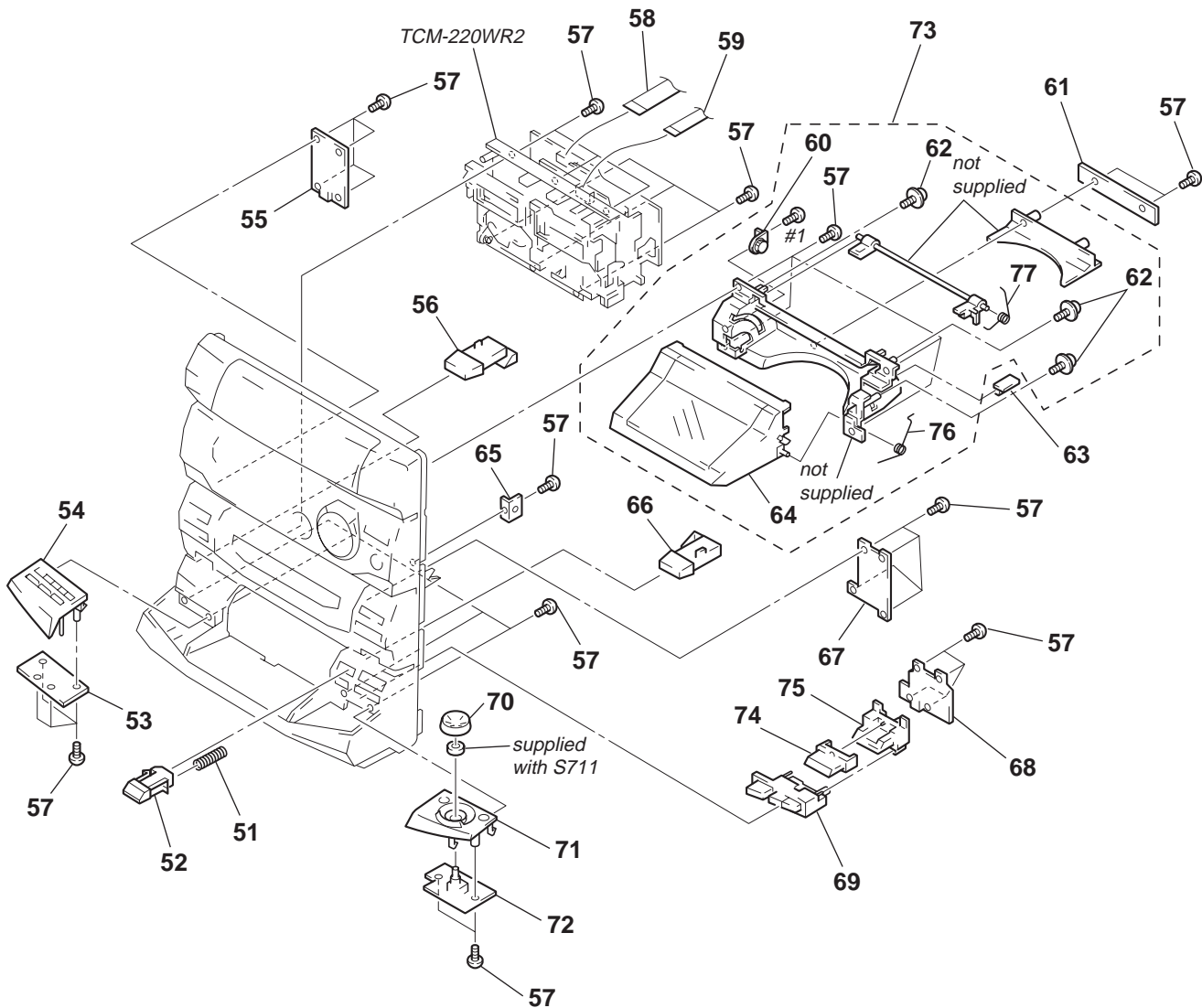
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. CASE, REAR PANEL SECTION



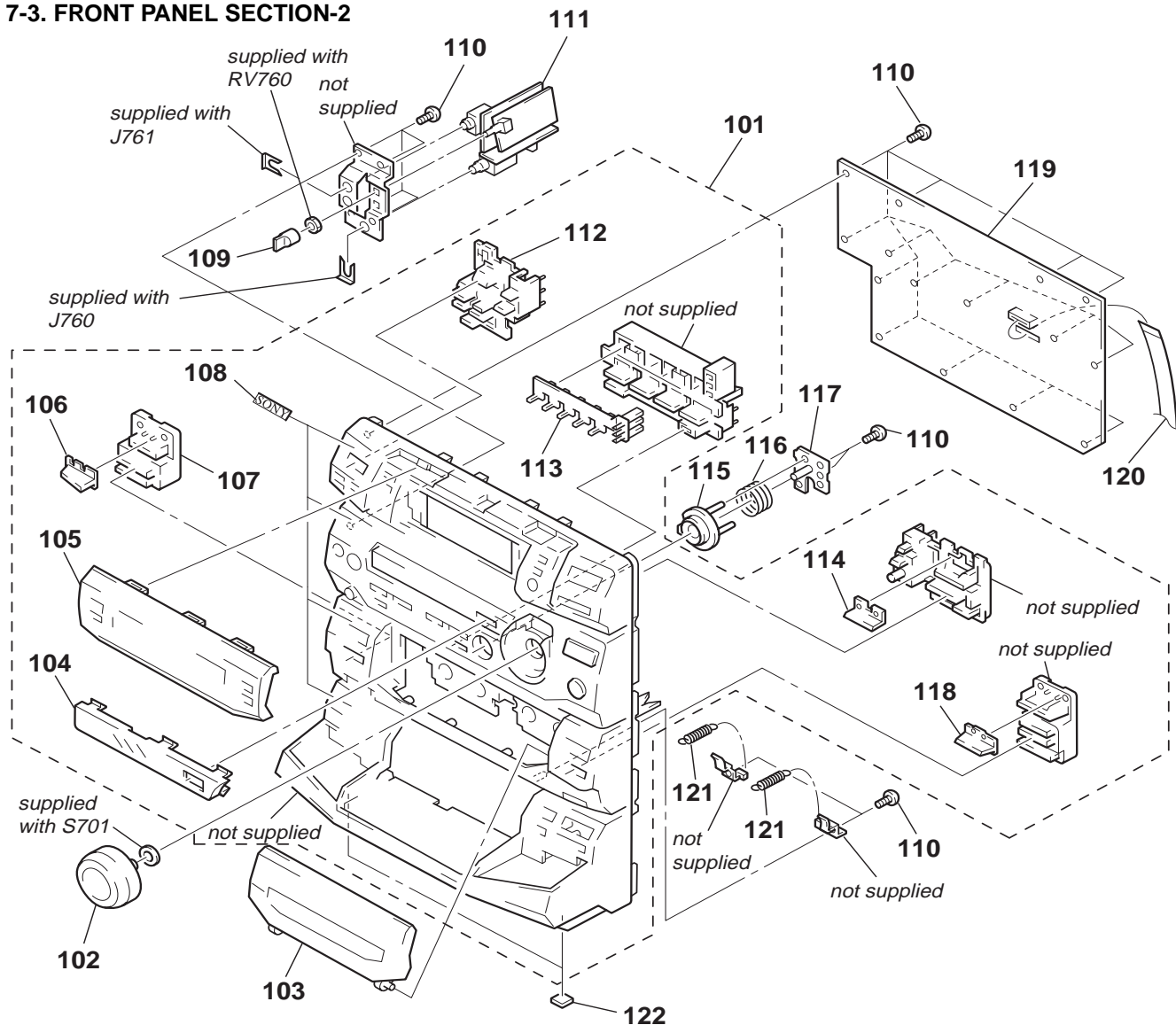
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-363-099-01	SCREW (CASE 3 TP2)		* 3	4-996-412-41	PANEL, BACK (XB44: SAF)	
* 2	4-987-052-72	CASE (G5500)		* 3	4-996-419-01	PANEL, BACK (D790: US)	
* 2	4-987-052-92	CASE (EXCEPT G5500)		* 3	4-996-419-11	PANEL, BACK (D790: CND)	
* 3	4-996-410-01	PANEL, BACK (XB33: E, AR)		* 3	4-996-419-21	PANEL, BACK (XB60: AEP, UK)	
* 3	4-996-410-21	PANEL, BACK (XB33: MX)		* 3	4-996-419-31	PANEL, BACK (XB60: EE, CIS)	
* 3	4-996-410-31	PANEL, BACK (XB33: AUS)		4	4-956-370-12	BAND, PLUG FIXED (AUS, UK)	
* 3	4-996-410-41	PANEL, BACK (XB33: SAF)		5	1-233-544-11	ENCAPSULATED COMPONENT (D390/D790/G5500)	
* 3	4-996-411-01	PANEL, BACK (D390: US)		5	1-233-545-11	ENCAPSULATED COMPONENT (XB33/XB44)	
* 3	4-996-411-11	PANEL, BACK (D390: CND)		* 5	A-4303-588-A	TCB BOARD, COMPLETE (EE, CIS)	
* 3	4-996-411-21	PANEL, BACK (XB50: AEP, UK)		* 5	A-4303-590-A	TCB BOARD, COMPLETE (AEP, UK)	
* 3	4-996-411-31	PANEL, BACK (XB50: EE, CIS)		6	1-769-974-11	WIRE (FLAT TYPE) (13 CORE) (EXCEPT XB50/XB60)	
* 3	4-996-411-41	PANEL, BACK (G5500)		6	1-773-006-11	WIRE (FLAT TYPE) (15 CORE) (XB50/XB60)	
* 3	4-996-412-01	PANEL, BACK (XB44: E, AR)		7	1-698-792-11	FAN, DC (XB44)	
* 3	4-996-412-21	PANEL, BACK (XB44: MX)					
* 3	4-996-412-31	PANEL, BACK (XB44: AUS)					

7-2. FRONT PANEL SECTION-1



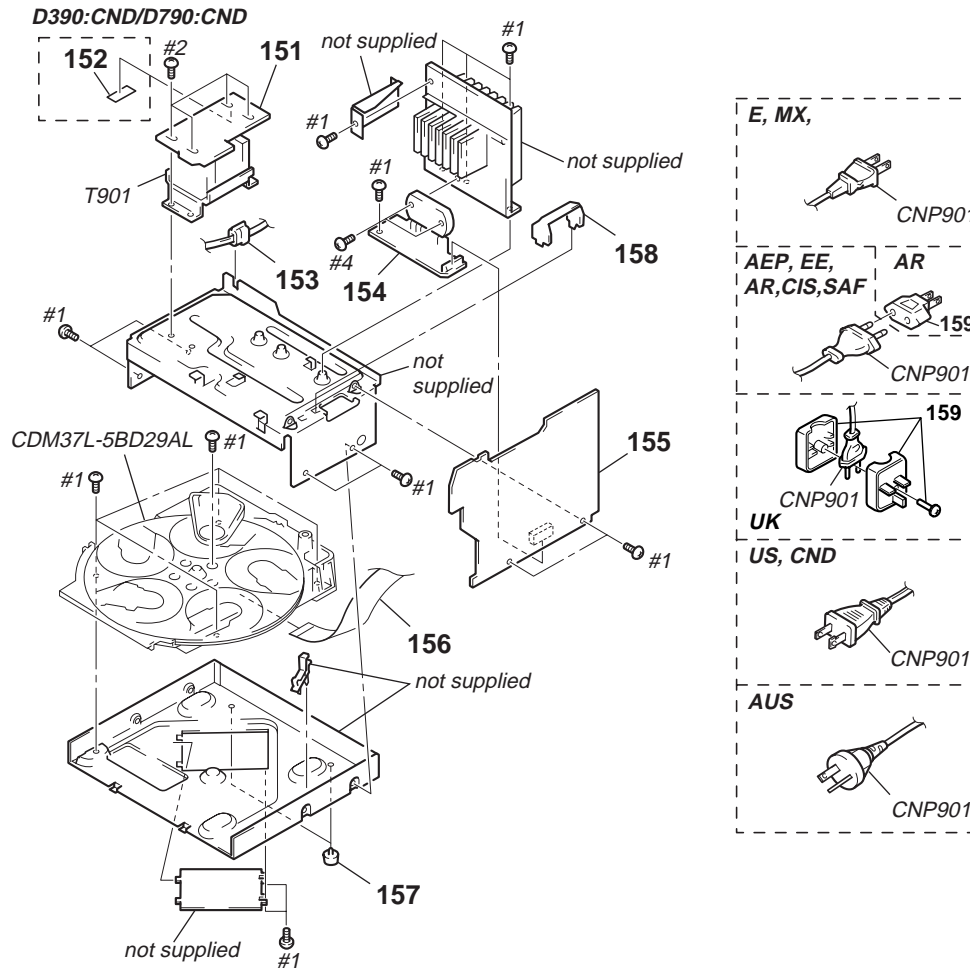
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-987-995-01	SPRING (CD EJECT), COMPRESSION		* 65	4-987-933-01	BRACKET (TA)	
52	4-987-001-01	BUTTON (EJECT CD)(G5500)		66	4-987-000-01	BUTTON (EJECT B) (G5500)	
52	4-987-001-11	BUTTON (EJECT CD)(EXCEPT G5500)		66	4-987-000-12	BUTTON (EJECT B) (EXCEPT G5500)	
* 53	1-669-630-11	CD-A SW BOARD		* 67	1-664-013-11	TC-B SW BOARD	
54	X-4948-297-1	PANEL (A) SUB ASSY (G5500)		* 68	1-669-631-11	CD-B1 SW BOARD	
54	X-4949-273-1	PANEL (A) SUB ASSY (D390/D790)		69	X-4947-969-1	BUTTON (CD STOP) ASSY (G5500)	
54	X-4949-282-1	PANEL(A) SUB ASSY (XB33/XB44/XB50/XB60)		69	X-4949-279-1	BUTTON (CD STOP) ASSY (EXCEPT G5500)	
* 55	1-664-012-11	TC-A SW BOARD		70	4-987-037-01	KNOB (JOG) (G5500)	
56	4-986-999-01	BUTTON (EJECT A) (G5500)		70	4-987-037-11	KNOB (JOG) (EXCEPT G5500)	
56	4-986-999-12	BUTTON (EJECT A) (EXCEPT G5500)		71	X-4948-298-1	PANEL (B) SUB ASSY (G5500)	
57	4-951-620-01	SCREW (2.6 × 8), +BVTP		71	X-4949-274-1	PANEL (B) SUB ASSY (EXCEPT G5500)	
58	1-773-161-11	WIRE (FLAT TYPE) (21 CORE)		* 72	1-669-632-11	CD-B2 SW BOARD	
59	1-769-949-11	WIRE (FLAT TYPE) (11 CORE)		73	A-4384-446-A	LID ASSY, CD (G5500)	
60	3-354-963-01	DAMPER		73	A-4384-908-A	LID ASSY, CD (D390/D790/XB50/XB60)	
* 61	1-664-017-11	LED BOARD		73	A-4384-916-A	LID ASSY, CD (XB33/XB44)	
62	4-957-577-01	SCREW PTP WH (2.6 × 8) (DIA. 10)		74	4-987-014-01	INDICATOR (CD)	
* 63	1-664-016-11	DOOR SW BOARD		75	4-987-002-01	BUTTON (CD.PLAY) (G5500)	
64	X-4949-684-1	LID ASSY, DISC (D390/D790/XB50/XB60)		75	4-987-002-11	BUTTON (CD.PLAY) (EXCEPT G5500)	
64	X-4949-685-1	LID ASSY, DISC (XB33/XB44)		76	4-987-997-01	SPRING (CD.LID), TORSION	
64	X-4949-709-1	LID ASSY, DISC (G5500)		77	4-987-998-01	SPRING (LOCK SHAFT), TORSION	

7-3. FRONT PANEL SECTION-2



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	X-4949-270-1	PANEL ASSY (D390)		109	4-973-644-71	KNOB (MIC)(EXCEPT G5500)	
101	X-4949-285-1	PANEL ASSY (XB50: AEP, UK)		110	4-951-620-01	SCREW (2.6 × 8), +BVT	
101	X-4949-287-1	PANEL ASSY (XB33)		* 111	A-4392-452-A	HEADPHONE-MIC BOARD, COMPLETE	
101	X-4949-288-1	PANEL ASSY (D790)		112	4-986-986-21	BUTTON (POWER) (EXCEPT G5500)	
101	X-4949-289-1	PANEL ASSY (XB60: AEP, UK)		112	4-986-986-31	BUTTON (POWER) (G5500)	
101	X-4949-291-1	PANEL ASSY (XB44)		113	4-987-012-01	INDICATOR (TA)	
101	X-4949-453-1	PANEL ASSY (G5500)		114	4-987-013-01	INDICATOR (TUNER)	
101	X-4949-579-1	PANEL ASSY (XB50: EE, CIS)		115	4-986-990-01	BUTTON (CURSOR) (G5500)	
101	X-4949-580-1	PANEL ASSY (XB60: EE, CIS)		115	4-986-990-11	BUTTON (CURSOR) (EXCEPT G5500)	
102	4-987-036-01	KNOB (VOL) (G5500)		116	4-978-683-01	SPRING, COMPRESSION	
102	4-987-036-11	KNOB (VOL) (EXCEPT G5500)		* 117	4-987-041-01	COVER, CURSOR	
103	X-4949-973-1	LID ASSY, CASSETTE (G5500)		118	4-987-022-01	INDICATOR (TC B)	
103	X-4949-271-1	LID ASSY, CASSETTE (EXCEPT G5500)		* 119	A-4403-872-A	PANEL BOARD, COMPLETE (D390/G5500/XB33/XB50: EE, CIS)	
104	4-987-032-01	DISPLAY (TA)		* 119	A-4403-885-A	PANEL BOARD, COMPLETE (XB60: AEP, UK)	
105	4-987-028-01	DISPLAY (ST)(G5500)		* 119	A-4403-892-A	PANEL BOARD, COMPLETE (XB50: AEP, UK)	
105	4-987-028-11	DISPLAY (ST) (EXCEPT G5500)		* 119	A-4403-906-A	PANEL BOARD, COMPLETE (D790/XB44/XB60: EE, CIS)	
106	4-987-021-01	INDICATOR (TC A)		120	1-773-051-11	WIRE (FLAT TYPE) (17 CORE)	
107	4-986-997-01	BUTTON (DECK. A) (G5500)		121	4-987-996-01	SPRING (TC LID), TENSION	
107	4-986-997-41	BUTTON (DECK. A) (EXCEPT G5500)		122	4-948-236-21	CUSHION (107)	
108	4-963-404-21	EMBLEM (5-A), SONY					
109	4-973-644-01	KNOB (MIC) (G5500)					

7-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 151	1-664-014-11	TRANS BOARD (D390: US/D790: US/G5500/XB50/XB60)		* 155	A-4407-353-A	MAIN BOARD, COMPLETE (XB50: EE, CIS)	
* 151	1-668-169-11	TRANS BOARD (D390: CND/D790: CND/XB33/XB44)		* 155	A-4407-358-A	MAIN BOARD, COMPLETE (XB60: EE, CIS)	
* 152	3-701-946-28	LABEL, FUSE RATING (D390: CND/D790: CND)		* 155	A-4407-361-A	MAIN BOARD, COMPLETE (XB44: SAF, AUS)	
153	3-703-244-00	BUSHING (FBS001), CORD (EXCEPT XB33: E, MX/XB44: E, MX)		* 155	A-4407-364-A	MAIN BOARD, COMPLETE (XB33: SAF, AUS)	
153	4-966-266-01	BUSHING (S) (FBS002), CORD (XB33: E, MX/XB44: E, MX)		156	1-777-868-11	WIRE (FLAT TYPE) (19 CORE)	
* 154	A-4392-442-A	POWER AMP BOARD, COMPLETE (D390/D790/G5500)		157	X-4941-228-1	FOOT (F22125H-M)	
* 154	A-4403-868-A	POWER AMP BOARD, COMPLETE (XB60)		* 158	4-988-533-01	HOLDER, PWB	
* 154	A-4403-888-A	POWER AMP BOARD, COMPLETE (XB44)		△ 159	1-569-008-11	ADAPTOR, CONVERSION 2P (AR)	
* 154	A-4403-900-A	POWER AMP BOARD, COMPLETE (XB50)		△ 159	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
* 154	A-4403-912-A	POWER AMP BOARD, COMPLETE (XB33)		△ CNP901	1-558-943-51	CORD, POWER (E, MX)	
* 155	A-4392-438-A	MAIN BOARD, COMPLETE (D390/G5500)		△ CNP901	1-575-042-21	CORD, POWER (US, CND)	
* 155	A-4392-474-A	MAIN BOARD, COMPLETE (D790)		△ CNP901	1-575-651-21	CORD, POWER (AEP, EE, AR, CIS, SAF, UK)	
* 155	A-4403-870-A	MAIN BOARD, COMPLETE (XB60: AEP, UK)		△ CNP901	1-696-845-11	CORD, POWER (AUS)	
* 155	A-4403-890-A	MAIN BOARD, COMPLETE (XB44: E, AR, MX)		△ T901	1-431-045-11	TRANSFORMER, POWER (D390: US/G5500)	
* 155	A-4403-894-A	MAIN BOARD, COMPLETE (XB50: AEP, UK)		△ T901	1-431-046-11	TRANSFORMER, POWER (D790: US)	
* 155	A-4403-909-A	MAIN BOARD, COMPLETE (XB33: E, AR, MX)		△ T901	1-431-634-11	TRANSFORMER, POWER (XB50)	
				△ T901	1-431-635-11	TRANSFORMER, POWER (XB33)	
				△ T901	1-431-636-11	TRANSFORMER, POWER (XB60)	
				△ T901	1-431-637-11	TRANSFORMER, POWER (XB44)	
				△ T901	1-431-733-11	TRANSFORMER, POWER (D390: CND/D790: CND)	

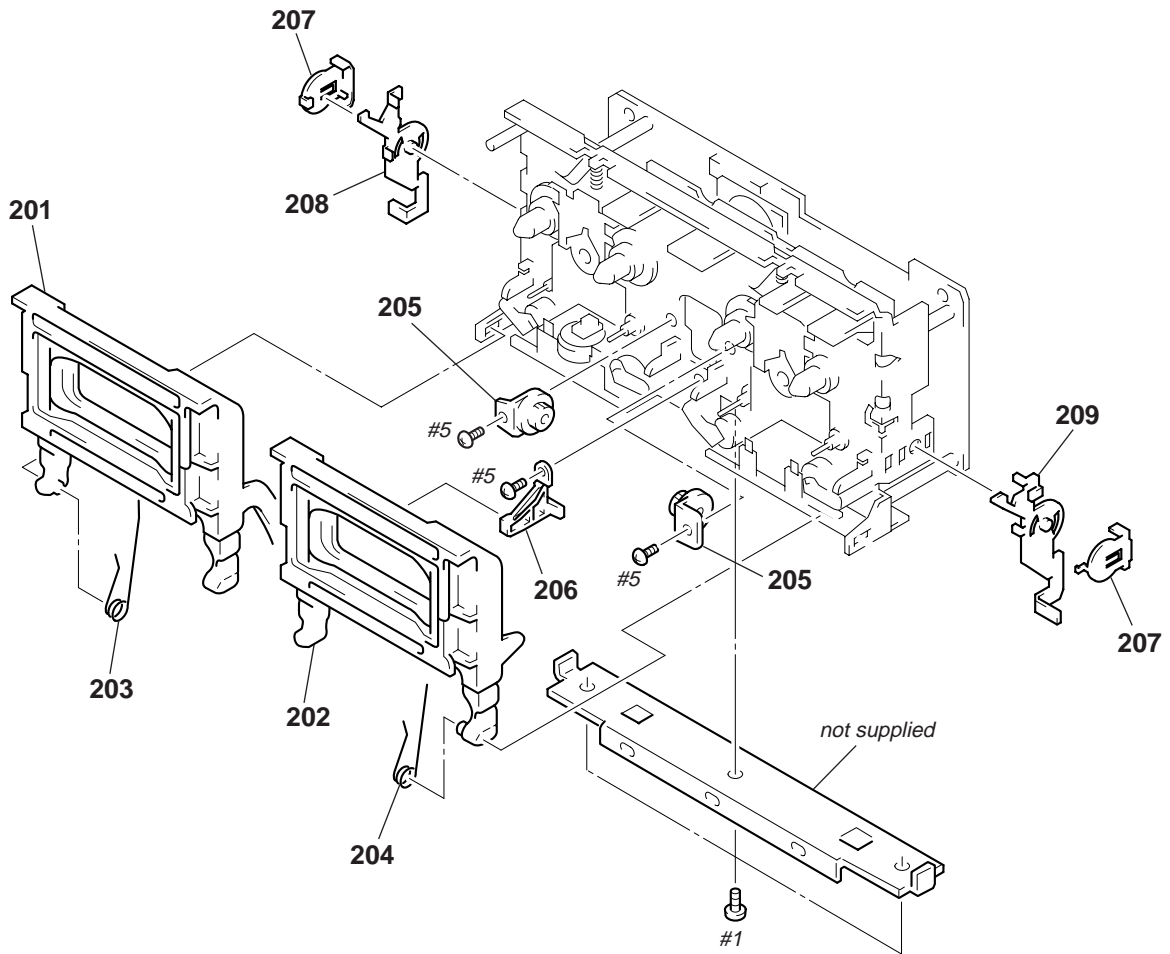
Note:

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:

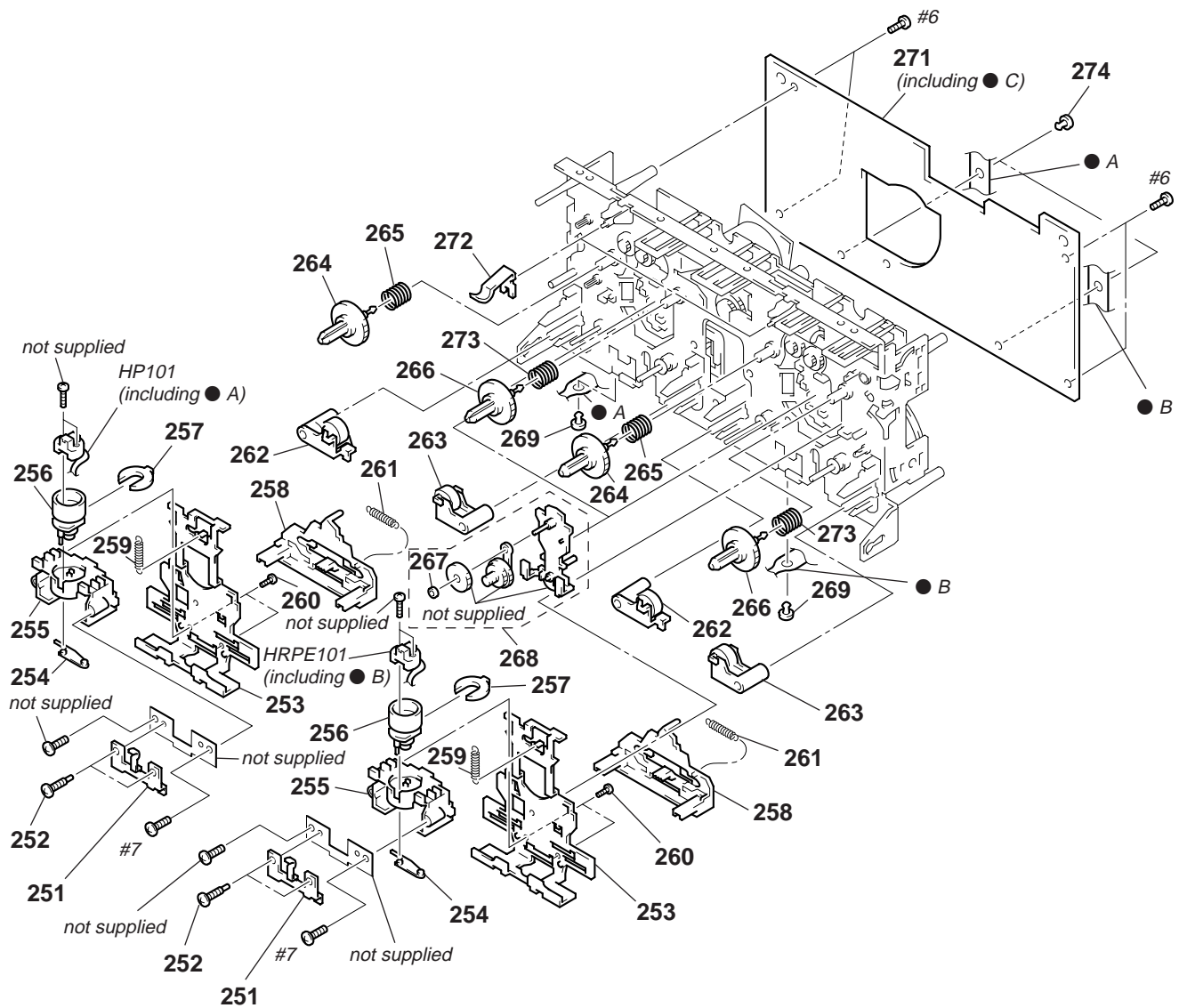
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**7-5. TAPE MECHANISM DECK SECTION-1
(TCM-220WR2)**



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
201	X-4947-943-1	HOLDER (L) ASSY, CASSETTE		* 206	4-980-439-01	FULCRUM, HOLDER	
202	X-4947-944-1	HOLDER (R) ASSY, CASSETTE		207	3-354-957-01	JOINT (LOCK LEVER)	
203	4-959-231-11	SPRING (L), TORSION		208	3-354-953-01	LEVER (LOCK LEVER L)	
204	4-959-232-11	SPRING (R), TORSION		209	3-354-954-01	LEVER (LOCK LEVER R)	
205	3-354-963-01	DAMPER					

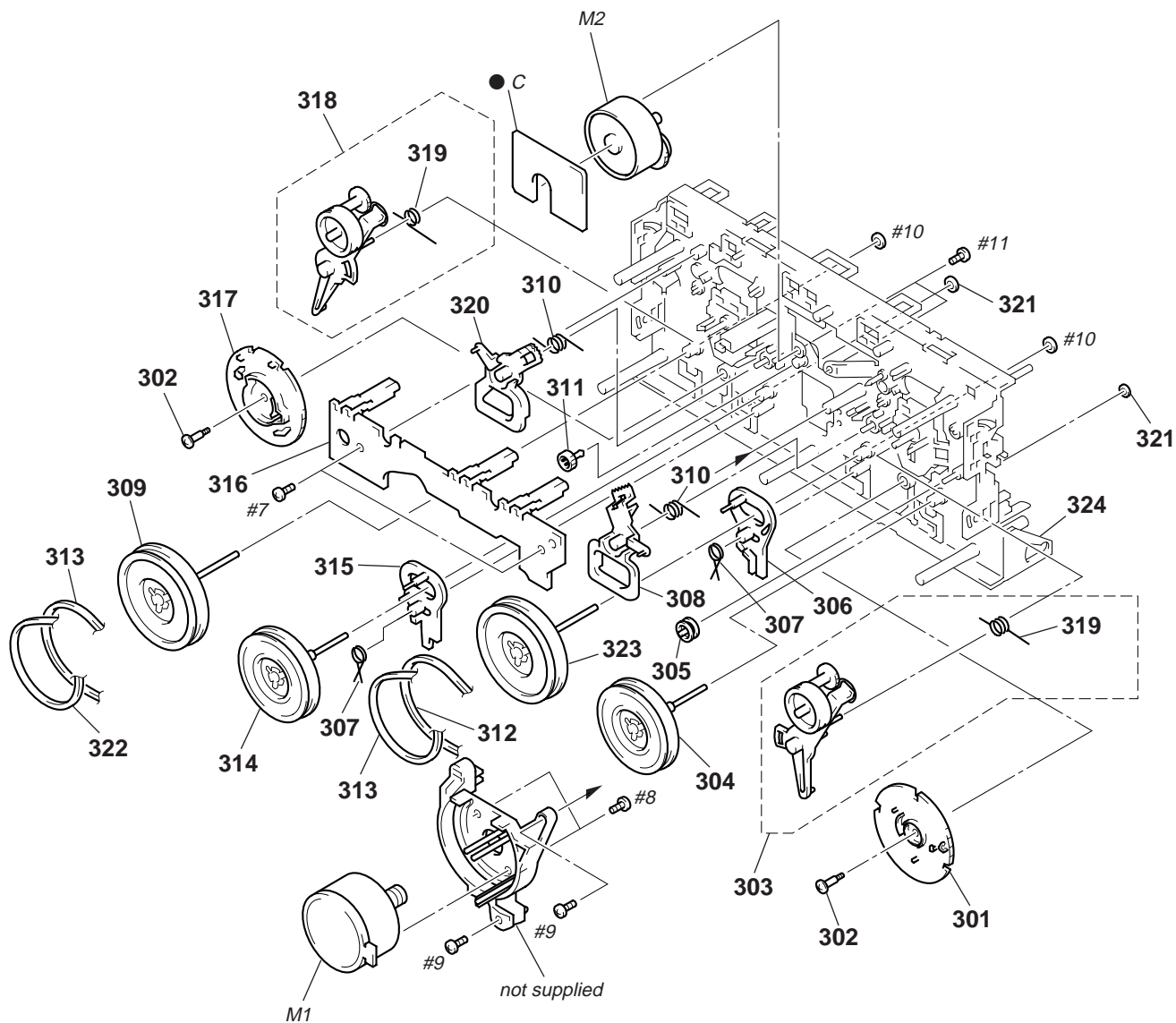
7-6. TAPE MECHANISM DECK SECTION-2 (TCM-220WR2)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
251	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT		264	3-908-613-01	GEAR (S), REEL	
252	3-919-684-01	SCREW, AZIMUTH ADJUSTMENT		265	3-917-141-01	SPRING, COMPRESSION	
253	X-3373-113-1	SLIDER (HEAD) ASSY		266	X-3371-305-1	REEL (T) ASSY	
254	3-908-556-01	SPRING, HEAD TOGGLE		267	3-669-465-01	WASHER (1.5), STOPPER	
255	3-908-558-02	FITTING BLOCK, HEAD		268	X-3370-173-1	TU ASSY	
256	3-908-557-02	ROTARY BLOCK, HEAD		269	3-911-116-21	RIVET, PUSH	
* 257	3-908-559-01	STOPPER, AZIMUTH		* 271	A-2007-131-A	AUDIO BOARD, COMPLETE	
258	3-908-555-01	SLIDER (REV SLIDER)		272	3-930-972-01	DETENT, HALF	
259	3-917-143-11	SPRING, TENSION		273	3-917-142-01	SPRING, COMPRESSION	
260	3-388-848-01	SCREW (P2X6) (B TIGHT)		274	3-911-116-11	RIVET, PUSH	
261	3-939-371-01	SPRING (1), TENSION		HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK) (DECK A)	
262	X-3369-909-1	PINCH LEVER (REV) ASSY		HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE) (DECK B)	
263	X-3369-908-1	PINCH LEVER (FWD) ASSY					

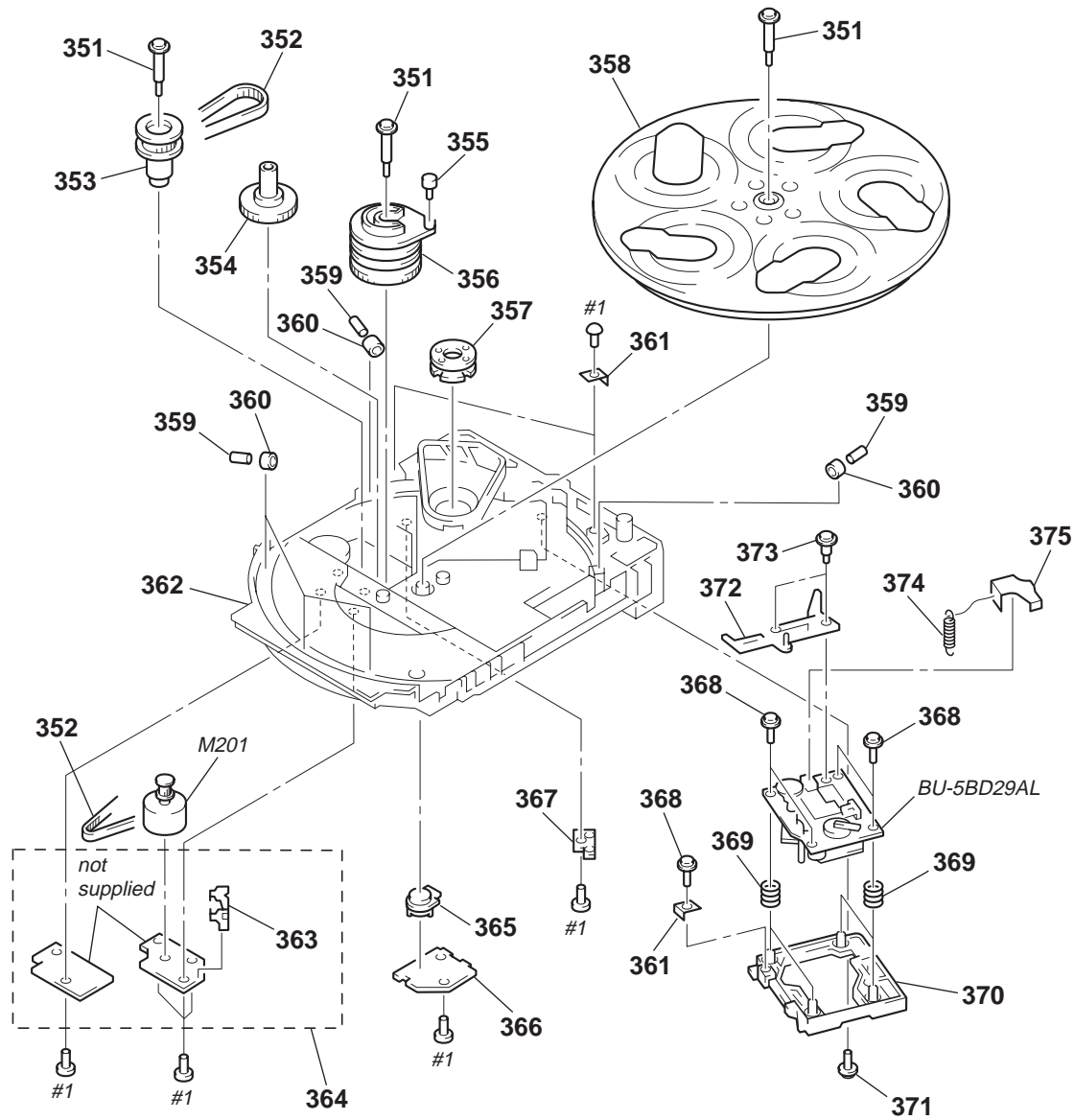
7-7. TAPE MECHANISM DECK SECTION-3 (TCM-220WR2)

● C : MOTOR board (supplied with AUDIO board)



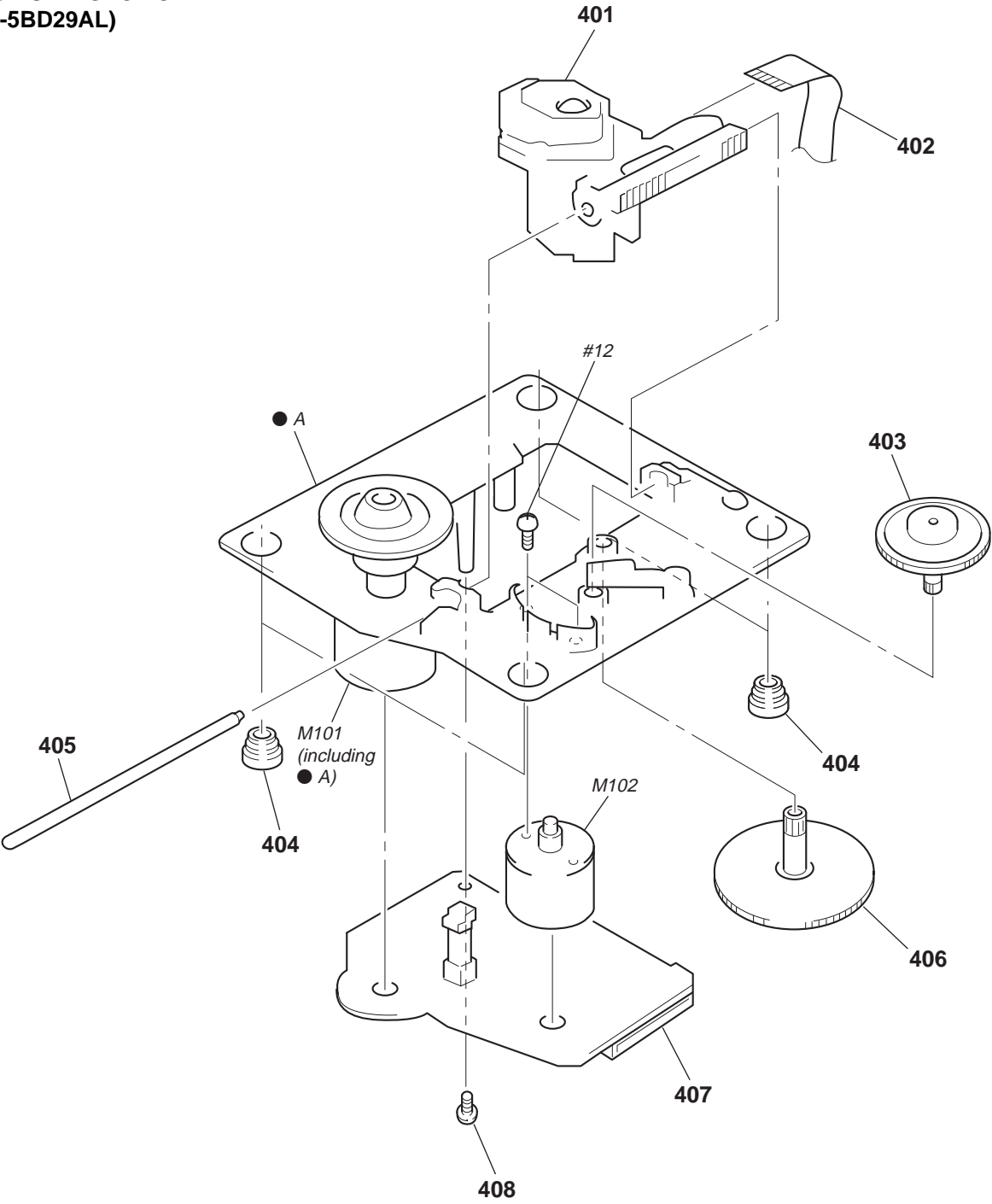
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
301	3-908-597-01	CAM (A)		314	X-3370-171-1	FLYWHEEL (BR) ASSY	
302	3-908-608-11	SCREW, STEP		315	3-908-600-01	LEVER (REV-B)	
303	X-3372-930-1	ARM (A) ASSY, FR		* 316	1-650-669-11	LEAF SWITCH BOARD	
304	X-3370-169-1	FLYWHEEL (AR) ASSY		317	3-908-598-01	CAM (B)	
305	3-928-047-01	PULLEY, TENSION		318	X-3372-931-1	ARM (B) ASSY, FR	
306	3-908-599-01	LEVER (REV-A)		319	3-914-111-01	SPRING (FR), TORSION	
307	3-908-601-01	SPRING (REV LEVER), TORSION		320	3-908-604-01	LEVER (TRIGGER B)	
308	3-908-603-01	LEVER (TRIGGER A)		321	3-911-115-01	WASHER, STOPPER	
309	X-3367-593-1	FLYWHEEL (BF) ASSY		322	3-917-176-11	BELT (B)	
310	3-908-605-01	SPRING (TRIGGER), TORSION		323	X-3370-172-1	FLYWHEEL (AF) ASSY	
311	3-908-609-01	GEAR, TRIGGER		324	X-3371-441-1	CHASSIS ASSY, MECHANICAL	
312	3-913-845-11	BELT (A)		M1	X-3371-223-1	MOTOR ASSY, CAPSTAN	
313	3-913-846-11	BELT (FR)		M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	

**7-8. CD MECHANISM DECK SECTION
(CDM37L-5BD29AL)**



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
351	4-987-976-01	SCREW, STEP		* 364	A-4673-765-A	CD MOTOR BOARD, COMPLETE	
352	4-944-490-01	BELT (TIMING)		365	4-978-426-01	INDICATOR (NO.)	
353	A-4660-978-A	GEAR (PULLEY) ASSY		* 366	1-659-059-13	BD LED BOARD	
354	4-978-421-01	GEAR (MID)		* 367	1-659-058-13	TABLE SENSOR BOARD	
355	4-978-425-01	ROLLER (CAM)		368	4-933-134-01	SCREW (+PTPWH M2.6 x 6)	
356	4-978-420-01	CAM (HOLDER)		369	4-958-593-01	SPRING (BU), COMPRESSION	
357	1-452-538-11	MAGNET		* 370	4-978-419-01	HOLDER (BU-5)	
358	4-978-417-01	TABLE, DISC		371	4-917-583-71	BRACKET, YOKE	
359	4-934-376-01	SHAFT (ROLLER)		372	4-989-493-01	SLIDER (37)	
360	X-4924-457-1	ROLLER ASSY		373	4-989-494-01	SCREW (SLIDER), STEP	
* 361	4-978-583-01	BRACKET (BU)		374	4-989-819-01	SPRING, TENSION	
* 362	4-978-418-01	CHASSIS		375	4-989-491-21	COVER, LENS	
* 363	4-980-385-01	HOLDER (SW)		M201	A-4660-977-A	MOTOR ASSY (TABLE)	

7-9. BASE UNIT SECTION
(BU-5BD29AL)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
△ 401	8-820-020-01	OPTICAL PICK-UP KSS-213D/Q-NP		406	4-917-564-01	GEAR (P), FLATNESS	
402	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)		* 407	A-4699-522-A	BD BOARD, COMPLETE	
403	4-917-567-21	GEAR (M)		408	4-951-620-01	SCREW (2.6 × 8), +BVTP	
404	4-951-940-01	INSULATOR (BU)		M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
405	4-917-565-01	SHAFT, SLED		M102	X-4917-504-1	MOTOR ASSY (SLED)	

Note:
The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 8 ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Abbreviation
AR : Argentine EE : East European
AUS : Australian MX : Mexican
CND : Canadian SAF : South African

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
uF: μ F
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA..., μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
*	A-2007-131-A	AUDIO BOARD, COMPLETE ***** (including MOTOR BOARD)				< CONNECTOR >	
		< CAPACITOR >		CN601	1-695-382-31	PIN, CONNECTOR (PC BOARD) 21P	
				CN602	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
				* CN651	1-564-521-11	PLUG, CONNECTOR 6P	
						< IC >	
C301	1-162-289-31	CERAMIC	390PF 10% 50V	IC601	8-759-111-44	IC uPC4570C-1	
C302	1-126-968-11	ELECT	100uF 20% 6.3V	IC602	8-759-143-54	IC uPC1330HA	
C303	1-162-282-31	CERAMIC	100PF 10% 50V	IC611	8-759-111-44	IC uPC4570C-1	
C304	1-130-483-00	MYLAR	0.01uF 5% 50V			< COIL >	
C305	1-107-715-11	ELECT	22uF 20% 16V	L331	1-410-780-11	INDUCTOR 27mH	
				L431	1-410-780-11	INDUCTOR 27mH	
C311	1-162-289-31	CERAMIC	390PF 10% 50V			< TRANSISTOR >	
C313	1-162-282-31	CERAMIC	100PF 10% 50V	Q621	8-729-142-46	TRANSISTOR 2SC2001-LK	
C314	1-130-487-00	MYLAR	0.022uF 5% 50V	Q622	8-729-142-46	TRANSISTOR 2SC2001-LK	
C315	1-126-233-11	ELECT	22uF 20% 25V	Q623	8-729-801-93	TRANSISTOR 2SD1387	
C331	1-137-427-11	FILM	120PF 5% 50V	Q651	8-729-900-65	TRANSISTOR DTA144ES	
						< RESISTOR >	
C332	1-162-288-31	CERAMIC	330PF 10% 50V	R301	1-247-881-00	CARBON 120K 5% 1/4W	
C333	1-162-209-31	CERAMIC	27PF 5% 50V	R302	1-249-409-11	CARBON 220 5% 1/4W	
C401	1-162-289-31	CERAMIC	390PF 10% 50V	R303	1-249-433-11	CARBON 22K 5% 1/4W	
C402	1-126-968-11	ELECT	100uF 20% 6.3V	R304	1-247-889-00	CARBON 270K 5% 1/4W	
C403	1-162-282-31	CERAMIC	100PF 10% 50V	R305	1-247-858-11	CARBON 13K 5% 1/4W	
C404	1-130-483-00	MYLAR	0.01uF 5% 50V	R311	1-247-881-00	CARBON 120K 5% 1/4W	
C405	1-107-715-11	ELECT	22uF 20% 16V	R312	1-247-807-31	CARBON 100 5% 1/4W	
C411	1-162-289-31	CERAMIC	390PF 10% 50V	R314	1-247-882-11	CARBON 130K 5% 1/4W	
C413	1-162-282-31	CERAMIC	100PF 10% 50V	R315	1-247-850-11	CARBON 6.2K 5% 1/4W	
C414	1-130-487-00	MYLAR	0.022uF 5% 50V	R331	1-249-430-11	CARBON 12K 5% 1/4W	
C415	1-126-233-11	ELECT	22uF 20% 25V	R401	1-247-881-00	CARBON 120K 5% 1/4W	
C431	1-137-427-11	FILM	120PF 5% 50V	R402	1-249-409-11	CARBON 220 5% 1/4W	
C432	1-162-288-31	CERAMIC	330PF 10% 50V	R403	1-249-433-11	CARBON 22K 5% 1/4W	
C433	1-162-209-31	CERAMIC	27PF 5% 50V	R404	1-247-889-00	CARBON 270K 5% 1/4W	
C601	1-104-396-11	ELECT	10uF 20% 16V	R405	1-247-858-11	CARBON 13K 5% 1/4W	
C602	1-104-396-11	ELECT	10uF 20% 16V	R411	1-247-881-00	CARBON 120K 5% 1/4W	
C611	1-124-907-11	ELECT	10uF 20% 50V	R412	1-247-807-31	CARBON 100 5% 1/4W	
C612	1-124-907-11	ELECT	10uF 20% 50V	R414	1-247-882-11	CARBON 130K 5% 1/4W	
C621	1-137-150-11	FILM	0.01uF 5% 100V	R415	1-247-850-11	CARBON 6.2K 5% 1/4W	
C622	1-126-961-11	ELECT	2.2uF 20% 50V	R431	1-249-430-11	CARBON 12K 5% 1/4W	
C623	1-136-155-00	FILM	0.015uF 5% 50V	R601	1-249-409-11	CARBON 220 5% 1/4W	
C624	1-130-481-00	MYLAR	0.0068uF 5% 50V	R602	1-249-409-11	CARBON 220 5% 1/4W	
C625	1-130-481-00	MYLAR	0.0068uF 5% 50V	R608	1-249-409-11	CARBON 220 5% 1/4W	
C627	1-124-903-11	ELECT	1uF 20% 50V	R609	1-249-433-11	CARBON 22K 5% 1/4W	
C628	1-136-153-00	FILM	0.01uF 5% 50V	R611	1-249-409-11	CARBON 220 5% 1/4W	
C642	1-104-664-11	ELECT	47uF 20% 16V				
C651	1-161-494-00	CERAMIC	0.022uF 25V				

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R612	1-249-409-11	CARBON 220	5% 1/4W	C140	1-110-501-11	CERAMIC CHIP 0.33uF	50V
△ R621	1-212-851-00	FUSIBLE 5.6	5% 1/4W F	C154	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
△ R622	1-212-851-00	FUSIBLE 5.6	5% 1/4W F	C161	1-164-005-11	CERAMIC CHIP 0.47uF	25V
R623	1-249-432-11	CARBON 18K	5% 1/4W	C162	1-164-232-11	CERAMIC CHIP 0.01uF	50V
R624	1-249-432-11	CARBON 18K	5% 1/4W	C163	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R625	1-249-429-11	CARBON 10K	5% 1/4W	C164	1-163-145-00	CERAMIC CHIP 0.0015uF	5% 50V
R651	1-247-856-00	CARBON 11K	5% 1/4W	C165	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
R652	1-247-856-00	CARBON 11K	5% 1/4W	C166	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
R653	1-249-441-11	CARBON 100K	5% 1/4W	C167	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
< VARIABLE RESISTOR >				C168	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K		C169	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K		C170	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
RV341	1-238-551-11	RES, ADJ, CARBON 220K		C171	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K		C173	1-163-038-91	CERAMIC CHIP 0.1uF	25V
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K		C174	1-163-038-91	CERAMIC CHIP 0.1uF	25V
RV441	1-238-551-11	RES, ADJ, CARBON 220K		C175	1-163-038-91	CERAMIC CHIP 0.1uF	25V
RV651	1-238-599-11	RES, ADJ, CARBON 4.7K		C176	1-163-038-91	CERAMIC CHIP 0.1uF	25V
RV652	1-238-599-11	RES, ADJ, CARBON 4.7K		C177	1-163-038-91	CERAMIC CHIP 0.1uF	25V
< TRANSFORMER >				C178	1-163-038-91	CERAMIC CHIP 0.1uF	25V
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION		C179	1-163-038-91	CERAMIC CHIP 0.1uF	25V
*****				C181	1-126-205-11	ELECT CHIP 47uF	20% 6.3V
				C182	1-126-393-11	ELECT 33uF	20% 10V
				C183	1-124-778-00	ELECT CHIP 22uF	20% 6.3V
				C185	1-164-232-11	CERAMIC CHIP 0.01uF	50V
				C188	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
*	A-4699-522-A	BD BOARD, COMPLETE		C189	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
*****				< CONNECTOR >			
< CAPACITOR >				CNU101	1-770-014-11	CONNECTOR, FFC/FPC 16P	
C101	1-126-607-11	ELECT CHIP 47uF	20% 4V	CNU102	1-778-874-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P	
C102	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V	< FERRITE BEAD >			
C103	1-164-346-11	CERAMIC CHIP 1uF	16V	FB101	1-414-234-11	INDUCTOR, FERRITE BEAD	
C105	1-163-038-91	CERAMIC CHIP 0.1uF	25V	FB103	1-414-234-11	INDUCTOR, FERRITE BEAD	
C106	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	< IC >			
C107	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	IC101	8-752-080-62	IC CXA1992AR	
C108	1-164-232-11	CERAMIC CHIP 0.01uF	50V	IC102	8-759-429-32	IC BA5941FP-E2	
C109	1-164-232-11	CERAMIC CHIP 0.01uF	50V	IC103	8-752-378-66	IC CXD2519Q	
C110	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	< JUMPER RESISTOR >			
C111	1-163-017-00	CERAMIC CHIP 0.0047uF	5% 50V	JW101	1-216-295-91	CONDUCTOR, CHIP (2012)	
C112	1-163-017-00	CERAMIC CHIP 0.0047uF	5% 50V	JW104	1-216-295-91	CONDUCTOR, CHIP (2012)	
C113	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	< TRANSISTOR >			
C114	1-164-005-11	CERAMIC CHIP 0.47uF	25V	Q101	8-729-010-08	TRANSISTOR MSB710-R	
C115	1-126-607-11	ELECT CHIP 47uF	20% 4V	< RESISTOR >			
C116	1-163-016-00	CERAMIC CHIP 0.0039uF	10% 50V	R102	1-216-001-00	METAL CHIP 10	5% 1/10W
C117	1-164-005-11	CERAMIC CHIP 0.47uF	25V	R104	1-216-093-00	METAL CHIP 68K	5% 1/10W
C118	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V	R105	1-216-088-00	METAL CHIP 43K	5% 1/10W
C119	1-163-038-91	CERAMIC CHIP 0.1uF	25V	R106	1-216-088-00	METAL CHIP 43K	5% 1/10W
C120	1-124-779-00	ELECT CHIP 10uF	20% 16V	R107	1-216-088-00	METAL CHIP 43K	5% 1/10W
C121	1-163-038-91	CERAMIC CHIP 0.1uF	25V				
C122	1-164-232-11	CERAMIC CHIP 0.01uF	50V				
C123	1-163-038-91	CERAMIC CHIP 0.1uF	25V				
C124	1-126-607-11	ELECT CHIP 47uF	20% 4V				
C125	1-164-232-11	CERAMIC CHIP 0.01uF	50V				
C126	1-163-038-91	CERAMIC CHIP 0.1uF	25V				
C127	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V				
C128	1-163-135-00	CERAMIC CHIP 560PF	5% 50V				
C129	1-163-038-91	CERAMIC CHIP 0.1uF	25V				
C130	1-164-336-11	CERAMIC CHIP 0.33uF	25V				
C131	1-164-346-11	CERAMIC CHIP 1uF	16V				

Note:

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

BD	BD LED	CD MOTOR
-----------	---------------	-----------------

Ref. No.	Part No.	Description	Remarks
R108	1-216-088-00	METAL CHIP 43K 5%	1/10W
R109	1-216-093-00	METAL CHIP 68K 5%	1/10W
R114	1-216-101-00	METAL CHIP 150K 5%	1/10W
R115	1-216-101-00	METAL CHIP 150K 5%	1/10W
R116	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R117	1-216-069-00	METAL CHIP 6.8K 5%	1/10W
R118	1-216-063-91	METAL CHIP 3.9K 5%	1/10W
R119	1-216-085-00	METAL CHIP 33K 5%	1/10W
R120	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R121	1-216-114-00	METAL GLAZE 510K 5%	1/10W
R122	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R123	1-216-099-00	METAL CHIP 120K 5%	1/10W
R124	1-216-091-00	METAL CHIP 56K 5%	1/10W
R125	1-216-069-00	METAL CHIP 6.8K 5%	1/10W
R126	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
R127	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R128	1-216-098-00	METAL CHIP 110K 5%	1/10W
R129	1-216-025-91	METAL GLAZE 100 5%	1/10W
R130	1-216-079-00	METAL CHIP 18K 5%	1/10W
R131	1-216-079-00	METAL CHIP 18K 5%	1/10W
R132	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R133	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R134	1-216-065-91	METAL CHIP 4.7K 5%	1/10W
R135	1-216-065-91	METAL CHIP 4.7K 5%	1/10W
R136	1-216-073-00	METAL CHIP 10K 5%	1/10W
R137	1-216-065-91	METAL CHIP 4.7K 5%	1/10W
R138	1-216-025-91	METAL GLAZE 100 5%	1/10W
R156	1-216-081-00	METAL CHIP 22K 5%	1/10W
R157	1-216-069-00	METAL CHIP 6.8K 5%	1/10W
R158	1-216-001-00	METAL CHIP 10 5%	1/10W
R159	1-216-121-91	METAL GLAZE 1M 5%	1/10W
R161	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R162	1-216-073-00	METAL CHIP 10K 5%	1/10W
R163	1-216-121-91	METAL GLAZE 1M 5%	1/10W
R164	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R165	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R166	1-216-073-00	METAL CHIP 10K 5%	1/10W
R167	1-216-081-00	METAL CHIP 22K 5%	1/10W
R168	1-216-073-00	METAL CHIP 10K 5%	1/10W
R169	1-216-079-00	METAL CHIP 18K 5%	1/10W
R170	1-216-081-00	METAL CHIP 22K 5%	1/10W
R171	1-216-073-00	METAL CHIP 10K 5%	1/10W
R172	1-216-079-00	METAL CHIP 18K 5%	1/10W
R173	1-216-025-91	METAL GLAZE 100 5%	1/10W
R174	1-216-033-00	METAL CHIP 220 5%	1/10W
R175	1-216-025-91	METAL GLAZE 100 5%	1/10W
R176	1-216-025-91	METAL GLAZE 100 5%	1/10W
R177	1-216-025-91	METAL GLAZE 100 5%	1/10W
R178	1-216-025-91	METAL GLAZE 100 5%	1/10W
R179	1-216-025-91	METAL GLAZE 100 5%	1/10W
R180	1-216-025-91	METAL GLAZE 100 5%	1/10W
R181	1-216-025-91	METAL GLAZE 100 5%	1/10W
R188	1-216-037-00	METAL CHIP 330 5%	1/10W
R190	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R191	1-216-105-91	METAL GLAZE 220K 5%	1/10W

Ref. No.	Part No.	Description	Remarks
< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF	
< VIBRATOR >			
X101	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)	

*	1-659-059-13	BD LED BOARD	

< DIODE >			
D201	8-719-032-98	DIODE SEL5820A	
< TRANSISTOR >			
Q201	8-729-119-78	TRANSISTOR 2SC403SP-51	
< RESISTOR >			
R201	1-247-863-91	CARBON 22K 5%	1/4W
R202	1-249-411-11	CARBON 330 5%	1/4W
R203	1-249-437-11	CARBON 47K 5%	1/4W

*	A-4673-765-A	CD MOTOR BOARD, COMPLETE	

*	4-980-385-01	HOLDER (SW)	
< CAPACITOR >			
C201	1-124-907-11	ELECT 10uF 20%	50V
C202	1-164-159-21	CERAMIC 0.1uF	50V
C203	1-124-907-11	ELECT 10uF 20%	50V
< CONNECTOR >			
* CN201	1-568-947-11	PIN, CONNECTOR 9P	
< IC >			
IC201	8-759-365-94	IC TA8409S	
< COIL >			
L201	1-408-117-00	INDUCTOR 10uH	
< RESISTOR >			
R205	1-249-427-11	CARBON 6.8K 5%	1/4W
R206	1-249-425-11	CARBON 4.7K 5%	1/4W
< SWITCH >			
S201	1-762-587-11	SWITCH, PUSH (1 KEY)	

CD-A SW	CD-B1 SW	CD-B2 SW	DOOR SW	HEADPHONE-MIC
---------	----------	----------	---------	---------------

Ref. No.	Part No.	Description	Remarks				Ref. No.	Part No.	Description	Remarks			
*	1-669-630-11	CD-A SW BOARD *****					*	1-669-632-11	CD-B2 SW BOARD *****				
		< DIODE >							< RESISTOR >				
D641	8-719-058-04	DIODE SEL5223S-TP15 (NON-STOP)					R752	1-249-427-11	CARBON 6.8K 5%	1/4W	F		
		< RESISTOR >					R753	1-249-429-11	CARBON 10K 5%	1/4W	F		
R731	1-249-425-11	CARBON 4.7K 5%	1/4W	F		R754	1-249-432-11	CARBON 18K 5%	1/4W				
R732	1-249-427-11	CARBON 6.8K 5%	1/4W	F		R755	1-249-436-11	CARBON 39K 5%	1/4W				
R733	1-249-429-11	CARBON 10K 5%	1/4W			R756	1-247-881-00	CARBON 120K 5%	1/4W				
R734	1-249-432-11	CARBON 18K 5%	1/4W					< SWITCH >					
R735	1-249-436-11	CARBON 39K 5%	1/4W			S681	1-554-303-21	SWITCH, TACTILE (▷▷)					
		< SWITCH >					S682	1-554-303-21	SWITCH, TACTILE (REPEAT)				
R736	1-247-881-00	CARBON 120K 5%	1/4W			S683	1-554-303-21	SWITCH, TACTILE (PLAY MODE)					
R737	1-247-881-00	CARBON 120K 5%	1/4W			S684	1-554-303-21	SWITCH, TACTILE (1/ALL DISCS)					
R741	1-247-807-31	CARBON 100 5%	1/4W			S685	1-554-303-21	SWITCH, TACTILE (EDIT)					
		< SWITCH >					S686	1-554-303-21	SWITCH, TACTILE (<◁)				
S661	1-554-303-21	SWITCH, TACTILE (DISC 1)					S711	1-467-968-11	ENCODER, ROTARY (◁◁ AMS ▷▷)				
S662	1-554-303-21	SWITCH, TACTILE (DISC 2)					*****						
S663	1-554-303-21	SWITCH, TACTILE (DISC 3)					*	1-664-016-11	DOOR SW BOARD *****				
S664	1-554-303-21	SWITCH, TACTILE (DISC 4)							< CAPACITOR >				
S665	1-554-303-21	SWITCH, TACTILE (DISC 5)					C691	1-164-159-21	CERAMIC 0.1uF 50V				
S666	1-554-303-21	SWITCH, TACTILE (FLASH)							< CONNECTOR >				
S667	1-554-303-21	SWITCH, TACTILE (NON-STOP)					CN661	1-506-481-11	PIN, CONNECTOR 2P				
S668	1-554-303-21	SWITCH, TACTILE (LOOP)							< SWITCH >				
*****							S691	1-771-057-11	SWITCH, PUSH (1 KEY) (▲ OPEN)				
*	1-669-631-11	CD-B1 SW BOARD *****					*****						
		< CONNECTOR >					*	A-4392-452-A	HEADPHONE-MIC BOARD, COMPLETE *****				
* CN642	1-568-943-11	PIN, CONNECTOR 5P							< CAPACITOR >				
		< DIODE >					C760	1-162-306-11	CERAMIC 0.01uF 20%	16V			
D645	8-719-057-10	DIODE LNJ301MPUJAB (▷ CD PLAY)					C761	1-126-961-11	ELECT 2.2uF 20%	50V			
D646	8-719-057-97	DIODE SEL5923A-TP15 (■ PAUSE)					C764	1-162-294-31	CERAMIC 0.001uF 10%	50V			
D647	8-719-057-10	DIODE LNJ301MPUJAB (▷ CD PLAY)					C765	1-162-215-31	CERAMIC 47PF 5%	50V			
		< RESISTOR >					C766	1-162-290-31	CERAMIC 470PF 10%	50V			
R745	1-249-419-11	CARBON 1.5K 5%	1/4W	F		C767	1-162-215-31	CERAMIC 47PF 5%	50V				
R746	1-249-421-11	CARBON 2.2K 5%	1/4W	F		C769	1-162-282-31	CERAMIC 100PF 10%	50V				
R747	1-247-843-11	CARBON 3.3K 5%	1/4W			C770	1-126-961-11	ELECT 2.2uF 20%	50V				
R748	1-249-425-11	CARBON 4.7K 5%	1/4W	F		C771	1-126-959-11	ELECT 0.47uF 20%	50V				
R749	1-247-807-31	CARBON 100 5%	1/4W			C773	1-126-964-11	ELECT 10uF 20%	50V				
		< SWITCH >					C774	1-126-964-11	ELECT 10uF 20%	50V			
S676	1-554-303-21	SWITCH, TACTILE (▷)					C775	1-162-294-31	CERAMIC 0.001uF 10%	50V			
S677	1-554-303-21	SWITCH, TACTILE (■)					C776	1-162-294-31	CERAMIC 0.001uF 10%	50V			
S678	1-554-303-21	SWITCH, TACTILE (■)					C794	1-164-159-21	CERAMIC 0.1uF	50V			
S679	1-554-303-21	SWITCH, TACTILE (DISC SKIP)					C795	1-164-159-21	CERAMIC 0.1uF	50V			
*****							C797	1-162-302-11	CERAMIC 0.0022uF 20%	16V			
							C798	1-164-159-21	CERAMIC 0.1uF	50V			
							C799	1-164-159-21	CERAMIC 0.1uF	50V			

HEADPHONE-MIC

LEAF SWITCH

LED

MAIN

Ref. No.	Part No.	Description	Remarks			
< CONNECTOR >						
* CN701	1-568-935-11	PIN, CONNECTOR 8P				
< IC >						
IC760	8-759-634-51	IC M5218AP				
< JACK >						
J760	1-770-226-41	JACK (LARGE TYPE) (PHONES)				
J761	1-770-226-41	JACK (LARGE TYPE) (MIC)				
< RESISTOR >						
R760	1-249-429-11	CARBON	10K	5%	1/4W	
R761	1-249-417-11	CARBON	1K	5%	1/4W	F
R764	1-249-441-11	CARBON	100K	5%	1/4W	
R765	1-249-417-11	CARBON	1K	5%	1/4W	F
R766	1-247-863-91	CARBON	22K	5%	1/4W	
R767	1-249-429-11	CARBON	10K	5%	1/4W	
R769	1-247-885-00	CARBON	180K	5%	1/4W	
R770	1-247-807-31	CARBON	100	5%	1/4W	
< VARIABLE RESISTOR >						
RV760	1-225-366-11	RES, VAR, CARBON 50K (MIC LEVEL)				

*	1-650-669-11	LEAF SWITCH BOARD				

< CONNECTOR >						
* CN1001	1-568-854-11	SOCKET, CONNECTOR 11P				
CN1001	1-695-372-31	PIN, CONNECTOR (PC BOARD) 11P				
< TRANSISTOR >						
Q1001	8-749-010-90	TRANSISTOR PHOTO REFLECTOR				
			NJL5165KA-H			
Q1002	8-749-010-90	TRANSISTOR PHOTO REFLECTOR				
			NJL5165KA-H			
< RESISTOR >						
R1001	1-247-818-11	CARBON	300	5%	1/4W	
R1002	1-247-820-11	CARBON	360	5%	1/4W	
R1003	1-249-414-11	CARBON	560	5%	1/4W	
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	
R1005	1-247-818-11	CARBON	300	5%	1/4W	
< SWITCH >						
S1001	1-692-832-11	SWITCH, PUSH (1 KEY) (A PLAY)				
S1002	1-692-832-11	SWITCH, PUSH (1 KEY) (B PLAY)				
S1004	1-571-281-21	SWITCH, LEAF (A HALF)				
S1005	1-571-281-21	SWITCH, LEAF (A CrO2)				
S1006	1-572-248-11	SWITCH, LEAF (REC A)				
S1007	1-572-248-11	SWITCH, LEAF (B HALF)				
S1008	1-571-281-21	SWITCH, LEAF (B CrO2)				
S1009	1-571-281-21	SWITCH, LEAF (REC B)				

Ref. No.	Part No.	Description	Remarks			
*	1-664-017-11	LED BOARD *****				
< CONNECTOR >						
CN671	1-506-481-11	PIN, CONNECTOR 2P				
< DIODE >						
D671	8-719-058-03	DIODE	SEL5423E-TP15			
D672	8-719-058-03	DIODE	SEL5423E-TP15			
D673	8-719-058-03	DIODE	SEL5423E-TP15			
D674	8-719-058-03	DIODE	SEL5423E-TP15			
< RESISTOR >						
R791	1-249-412-11	CARBON	390	5%	1/4W F	

*	A-4392-438-A	MAIN BOARD, COMPLETE (D390/G5500) *****				
*	A-4392-474-A	MAIN BOARD, COMPLETE (D790) *****				
*	A-4403-870-A	MAIN BOARD, COMPLETE (XB60: AEP, UK) *****				
*	A-4403-890-A	MAIN BOARD, COMPLETE (XB44: E, AR, MX) *****				
*	A-4403-894-A	MAIN BOARD, COMPLETE (XB50: AEP, UK) *****				
*	A-4403-909-A	MAIN BOARD, COMPLETE (XB33: E, AR, MX) *****				
*	A-4407-353-A	MAIN BOARD, COMPLETE (XB50: EE, CIS) *****				
*	A-4407-358-A	MAIN BOARD, COMPLETE (XB60: EE, CIS) *****				
*	A-4407-361-A	MAIN BOARD, COMPLETE (XB44: SAF, AUS) *****				
*	A-4407-364-A	MAIN BOARD, COMPLETE (XB33: SAF, AUS) *****				
*	4-870-539-11	PLATE, GROUND				
	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 N-S				
< CAPACITOR >						
C100	1-164-159-21	CERAMIC	0.1uF		50V	
C101	1-162-288-31	CERAMIC	330PF	10%	50V (XB50/XB60)	
C102	1-162-282-31	CERAMIC	100PF	10%	50V	
C103	1-162-282-31	CERAMIC	100PF	10%	50V	
C104	1-126-961-11	ELECT	2.2uF	20%	50V	
C105	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C106	1-162-301-11	CERAMIC	0.0015uF	30%	16V	
C107	1-126-956-91	ELECT	0.1uF	20%	50V	
C108	1-126-967-11	ELECT	47uF	20%	10V (XB50/XB60)	
C121	1-162-286-21	CERAMIC	220PF	10%	50V	
C122	1-162-286-21	CERAMIC	220PF	10%	50V (XB33/XB44/XB50/XB60)	
C123	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C131	1-136-495-11	FILM	0.068uF	5%	50V (XB50/XB60)	
C132	1-136-495-11	FILM	0.068uF	5%	50V (XB50/XB60)	
C133	1-164-159-21	CERAMIC	0.1uF		50V (XB50/XB60)	

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C134	1-164-159-21	CERAMIC	0.1uF		50V	C253	1-130-493-00	MYLAR	0.068uF	5%	50V
					(XB50/XB60)	C254	1-130-493-00	MYLAR	0.068uF	5%	50V
C151	1-162-288-31	CERAMIC	330PF	10%	50V	C255	1-130-486-00	MYLAR	0.018uF	10%	50V
					(XB50/XB60)	C256	1-130-486-00	MYLAR	0.018uF	10%	50V
C152	1-162-282-31	CERAMIC	100PF	10%	50V	C257	1-130-480-00	MYLAR	0.0056uF	5%	50V
C153	1-162-282-31	CERAMIC	100PF	10%	50V						
C154	1-126-961-11	ELECT	2.2uF	20%	50V	C258	1-130-479-00	MYLAR	0.0047uF	5%	50V
						C259	1-130-474-00	MYLAR	0.0018uF	5%	50V
C155	1-162-600-11	CERAMIC	0.0047uF	30%	16V	C260	1-126-964-11	ELECT	10uF	20%	50V
C156	1-162-301-11	CERAMIC	0.0015uF	30%	16V	C261	1-126-964-11	ELECT	10uF	20%	50V
C157	1-126-956-91	ELECT	0.1uF	20%	50V	C262	1-130-483-00	MYLAR	0.01uF	5%	50V
C158	1-126-967-11	ELECT	47uF	20%	10V						
					(XB50/XB60)	C263	1-136-169-00	FILM	0.22uF	5%	50V
C171	1-162-286-21	CERAMIC	220PF	10%	50V	C264	1-136-169-00	FILM	0.22uF	5%	50V
						C276	1-126-964-11	ELECT	10uF	20%	50V
C172	1-162-286-21	CERAMIC	220PF	10%	50V	C281	1-126-933-11	ELECT	100uF	20%	10V
					(XB33/XB44/XB50/XB60)	C282	1-126-961-11	ELECT	2.2uF	20%	50V
C173	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C181	1-136-495-11	FILM	0.068uF	5%	50V	C283	1-126-933-11	ELECT	100uF	20%	10V
					(XB50/XB60)	C284	1-126-923-11	ELECT	220uF	20%	10V
C182	1-136-495-11	FILM	0.068uF	5%	50V	C291	1-126-959-11	ELECT	0.47uF	20%	50V
					(XB50/XB60)	C301	1-126-967-11	ELECT	47uF	20%	10V
C183	1-164-159-21	CERAMIC	0.1uF		50V	C302	1-164-159-21	CERAMIC	0.1uF		50V
					(XB50/XB60)						
C184	1-164-159-21	CERAMIC	0.1uF		50V	C303	1-136-173-00	FILM	0.47uF	5%	50V
					(XB50/XB60)	C304	1-126-926-11	ELECT	1000uF	20%	10V
C191	1-126-963-11	ELECT	4.7uF	20%	50V	C305	1-162-306-11	CERAMIC	0.01uF	20%	16V
					(XB44)	C309	1-102-518-11	CERAMIC	33PF	5%	50V
C192	1-164-159-21	CERAMIC	0.1uF		50V	C310	1-102-516-11	CERAMIC	27PF	5%	50V
					(XB44)						
C201	1-136-167-00	FILM	0.15uF	5%	50V	C311	1-164-159-21	CERAMIC	0.1uF		50V
					(D790/XB44/XB60)	C315	1-126-933-11	ELECT	100uF	20%	10V
C201	1-136-169-00	FILM	0.22uF	5%	50V	C316	1-136-165-00	FILM	0.1uF	5%	50V
					(D390/G5500/XB33/XB50)	C390	1-126-933-11	ELECT	100uF	20%	10V
C202	1-136-167-00	FILM	0.15uF	5%	50V	C391	1-162-306-11	CERAMIC	0.01uF	20%	16V
					(D790/XB44/XB60)						(XB33/XB44/XB50/XB60)
C202	1-136-169-00	FILM	0.22uF	5%	50V						
					(D390/G5500/XB33/XB50)	C392	1-126-933-11	ELECT	100uF	20%	10V
C203	1-130-493-00	MYLAR	0.068uF	5%	50V						(XB33/XB44/XB50/XB60)
C204	1-130-493-00	MYLAR	0.068uF	5%	50V	C393	1-126-925-11	ELECT	470uF	20%	10V
C205	1-130-486-00	MYLAR	0.018uF	10%	50V	C394	1-164-159-21	CERAMIC	0.1uF		50V
C206	1-130-486-00	MYLAR	0.018uF	10%	50V	C396	1-126-961-11	ELECT	2.2uF	20%	50V
C207	1-130-480-00	MYLAR	0.0056uF	5%	50V	C398	1-126-961-11	ELECT	2.2uF	20%	50V
C208	1-130-479-00	MYLAR	0.0047uF	5%	50V	C903	1-136-165-00	FILM	0.1uF	5%	50V
C209	1-130-474-00	MYLAR	0.0018uF	5%	50V	C904	1-126-937-11	ELECT	4700uF	20%	16V
C210	1-126-964-11	ELECT	10uF	20%	50V	C906	1-126-933-11	ELECT	100uF	20%	10V
C211	1-126-964-11	ELECT	10uF	20%	50V	C909	1-126-964-11	ELECT	10uF	20%	50V
C212	1-130-483-00	MYLAR	0.01uF	5%	50V	C910	1-126-933-11	ELECT	100uF	20%	10V
C213	1-136-169-00	FILM	0.22uF	5%	50V	C911	1-126-964-11	ELECT	10uF	20%	50V
C214	1-136-169-00	FILM	0.22uF	5%	50V	C912	1-126-916-11	ELECT	1000uF	20%	6.3V
C215	1-162-294-31	CERAMIC	0.001uF	10%	50V	C913	1-126-943-11	ELECT	2200uF	20%	25V
C216	1-136-167-00	FILM	0.15uF	5%	50V	C914	1-126-767-11	ELECT	1000uF	20%	16V
C221	1-126-967-11	ELECT	47uF	20%	10V	C915	1-126-967-11	ELECT	47uF	20%	16V
C222	1-126-967-11	ELECT	47uF	20%	10V	C916	1-164-159-21	CERAMIC	0.1uF		50V
C223	1-126-964-11	ELECT	10uF	20%	50V	C917	1-126-968-11	ELECT	100uF	20%	50V
C224	1-162-290-31	CERAMIC	470PF	10%	50V	C918	1-126-968-11	ELECT	100uF	20%	50V
C226	1-126-964-11	ELECT	10uF	20%	50V	C919	1-126-964-11	ELECT	10uF	20%	50V
C231	1-109-889-11	ELECT	1uF	20%	50V	C920	1-126-947-11	ELECT	47uF	20%	35V
C251	1-136-167-00	FILM	0.15uF	5%	50V	C953	1-136-165-00	FILM	0.1uF	5%	50V
					(D790/XB44/XB60)	C954	1-126-768-11	ELECT	2200uF	20%	16V
C251	1-136-169-00	FILM	0.22uF	5%	50V	C956	1-126-933-11	ELECT	100uF	20%	10V
					(D390/G5500/XB33/XB50)	C1501	1-130-479-00	MYLAR	0.0047uF	5%	50V
C252	1-136-167-00	FILM	0.15uF	5%	50V	C1502	1-162-290-31	CERAMIC	470PF	10%	50V
					(D790/XB44/XB60)						
C252	1-136-169-00	FILM	0.22uF	5%	50V						
					(D390/G5500/XB33/XB50)						

MAIN

Ref. No.	Part No.	Description	Remarks
C1503	1-164-159-21	CERAMIC 0.1uF	50V
C1504	1-126-960-11	ELECT 1uF	20% 50V
C1505	1-126-964-11	ELECT 10uF	20% 50V
C1506	1-126-964-11	ELECT 10uF	20% 50V
C1507	1-126-960-11	ELECT 1uF	20% 50V
C1508	1-126-933-11	ELECT 100uF	20% 10V
C1523	1-126-933-11	ELECT 100uF	20% 16V
C1531	1-164-159-21	CERAMIC 0.1uF	50V
C1532	1-164-159-21	CERAMIC 0.1uF	50V
C1533	1-164-159-21	CERAMIC 0.1uF	50V
C1534	1-126-935-11	ELECT 470uF	20% 16V
C1551	1-130-479-00	MYLAR 0.0047uF	5% 50V
C1552	1-162-290-31	CERAMIC 470PF	10% 50V
C1553	1-164-159-21	CERAMIC 0.1uF	50V
C1554	1-126-960-11	ELECT 1uF	20% 50V
C1555	1-126-964-11	ELECT 10uF	20% 50V
C1556	1-126-964-11	ELECT 10uF	20% 50V
C1557	1-126-960-11	ELECT 1uF	20% 50V
C1558	1-126-933-11	ELECT 100uF	20% 10V
< CONNECTOR >			
CN101	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P	
* CN102	1-568-836-11	SOCKET, CONNECTOR 17P	
CN105	1-564-506-11	PLUG, CONNECTOR 3P (XB44)	
* CN201	1-568-832-11	SOCKET, CONNECTOR 13P	(EXCEPT XB50/XB60)
CN201	1-568-834-11	SOCKET, CONNECTOR 15P	(XB50/XB60)
CN202	1-568-802-11	SOCKET, CONNECTOR 19P	
* CN203	1-568-936-11	PIN, CONNECTOR 9P	
CN205	1-568-838-11	SOCKET, CONNECTOR 21P	
* CN206	1-568-830-11	SOCKET, CONNECTOR 11P	
* CN207	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P	
< DIODE >			
D141	8-719-991-33	DIODE 1SS133T-77	
D191	8-719-991-33	DIODE 1SS133T-77 (XB44)	
D192	8-719-991-33	DIODE 1SS133T-77 (XB44)	
D281	8-719-991-33	DIODE 1SS133T-77	
D291	8-719-991-33	DIODE 1SS133T-77	
D301	8-719-200-82	DIODE 11ES2-NTA1B	
D302	8-719-200-82	DIODE 11ES2-NTA1B	
D303	8-719-991-33	DIODE 1SS133T-77	
D304	8-719-991-33	DIODE 1SS133T-77	
D305	8-719-991-33	DIODE 1SS133T-77	
D306	8-719-991-33	DIODE 1SS133T-77	
D307	8-719-991-33	DIODE 1SS133T-77	
D309	8-719-991-33	DIODE 1SS133T-77 (D790/XB44/XB60)	
D902	8-719-200-82	DIODE 11ES2-NTA1B	
D903	8-719-200-82	DIODE 11ES2-NTA1B	
D904	8-719-200-82	DIODE 11ES2-NTA1B	
D905	8-719-200-82	DIODE 11ES2-NTA1B	
D906	8-719-200-82	DIODE 11ES2-NTA1B	
D907	8-719-200-82	DIODE 11ES2-NTA1B	
D908	8-719-200-82	DIODE 11ES2-NTA1B	
D909	8-719-200-82	DIODE 11ES2-NTA1B	
D910	8-719-982-26	DIODE MTZJ-T-77-33B	
D911	8-719-109-66	DIODE MTZJ-T-77-3.3B	
D912	8-719-991-33	DIODE 1SS133T-77	
D913	8-719-200-82	DIODE 11ES2-NTA1B	

Ref. No.	Part No.	Description	Remarks
D914	8-719-200-82	DIODE 11ES2-NTA1B	
D915	8-719-935-69	DIODE UZL-11M1-TA	
D951	8-719-991-33	DIODE 1SS133T-77	
D952	8-719-991-33	DIODE 1SS133T-77	
< FERRITE BEAD >			
FB301	1-412-473-21	INDUCTOR 0uH (XB60)	
FB302	1-412-473-21	INDUCTOR 0uH (EXCEPT XB60)	
< IC >			
IC101	8-759-634-50	IC M5218AL	
IC102	8-759-000-48	IC MC14052BCP	
IC201	8-759-460-02	IC M62427FP-A	
IC231	8-759-634-50	IC M5218AL	
IC281	8-759-111-68	IC uPC1237HA	
IC301	8-759-499-02	IC uPD780018YGF-027-3BA	(D390/D790/G5500)
IC301	8-759-531-31	IC uPD780018YGF-028-3BA	(XB33/XB44/XB50/XB60)
IC302	8-759-635-63	IC M51943BSL-TP	
IC391	8-749-923-04	IC TOTX178 (XB33/XB44/XB50/XB60)	
IC901	8-759-288-53	IC LA5617	
IC902	8-759-604-86	IC M5F7807L	
IC903	8-759-231-53	IC M5F7805L	
IC904	8-759-231-58	IC NJM7812FA (XB33/XB44/XB50/XB60)	
IC904	8-759-604-39	IC M5F78M12L (D390/D790/G5500)	
IC1501	8-759-363-21	IC HA12203NT	
IC1502	8-759-822-09	IC LB1641	
< JACK >			
J101	1-695-188-31	JACK, PIN 4P (PHONO, VIDEO (AUDIO))	(D390/D790/G5500)
J101	1-784-275-11	JACK, PIN 6P (PHONO, VIDEO (AUDIO))IN, OUT	(XB33/XB44/XB50/XB60)
< COIL >			
L131	1-420-872-00	COIL, AIR-CORE (XB50/XB60)	
L181	1-420-872-00	COIL, AIR-CORE (XB50/XB60)	
L301	1-410-509-11	INDUCTOR 10uH	
L393	1-410-515-11	INDUCTOR 33uH	
< TRANSISTOR >			
Q101	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	(XB33/XB44/XB50/XB60)
Q102	8-729-029-40	TRANSISTOR DTA124ESA-TP	(XB33/XB44/XB50/XB60)
Q103	8-729-029-86	TRANSISTOR DTC124ESA-TP	(XB33/XB44/XB50/XB60)
Q141	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q142	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q151	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	(XB33/XB44/XB50/XB60)
Q191	8-729-119-76	TRANSISTOR 2SA1175TP-HFE (XB44)	
Q192	8-729-111-29	TRANSISTOR 2SD1616-TP-LK (XB44)	
Q201	8-729-029-86	TRANSISTOR DTC124ESA-TP	(D790/XB44/XB60)
Q202	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q203	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q204	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q231	8-729-029-40	TRANSISTOR DTA124ESA-TP	
Q232	8-729-029-40	TRANSISTOR DTA124ESA-TP	

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
Q251	8-729-029-86	TRANSISTOR DTC124ESA-TP	(D790/XB44/XB60)	R153	1-249-437-11	CARBON 47K 5%	1/4W
Q252	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R154	1-249-417-11	CARBON 1K 5%	1/4W F
Q253	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R155	1-247-897-11	CARBON 560K 5%	1/4W
Q254	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R156	1-249-437-11	CARBON 47K 5%	1/4W
Q281	8-729-029-86	TRANSISTOR DTC124ESA-TP		R157	1-249-417-11	CARBON 1K 5%	1/4W F
Q282	8-729-029-40	TRANSISTOR DTA124ESA-TP		R158	1-249-441-11	CARBON 100K 5%	1/4W
Q283	8-729-029-86	TRANSISTOR DTC124ESA-TP		R159	1-247-815-91	CARBON 220 5%	1/4W
Q301	8-729-040-05	TRANSISTOR 2SC2603TP-EF					(XB50/XB60)
Q901	8-729-040-20	TRANSISTOR RT1P137L-TP		R171	1-249-424-11	CARBON 3.9K 5%	1/4W F
Q902	8-729-029-86	TRANSISTOR DTC124ESA-TP		R172	1-247-887-00	CARBON 220K 5%	1/4W
				R173	1-249-426-11	CARBON 5.6K 5%	1/4W
							(XB33/XB44/XB50/XB60)
Q903	8-729-026-68	TRANSISTOR 2SD2525(TP)		R174	1-249-429-11	CARBON 10K 5%	1/4W
Q904	8-729-030-19	TRANSISTOR 2SB1640(TP)					(XB33/XB44/XB50/XB60)
Q905	8-729-040-20	TRANSISTOR RT1P137L-TP		R176	1-249-417-11	CARBON 1K 5%	1/4W F
Q906	8-729-029-40	TRANSISTOR DTA124ESA-TP					(XB33/XB44/XB50/XB60)
Q907	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R177	1-249-441-11	CARBON 100K 5%	1/4W
							(XB33/XB44/XB50/XB60)
Q1531	8-729-801-93	TRANSISTOR 2SD1387-34-TP		R181	1-260-076-11	CARBON 10 5%	1/2W
Q1532	8-729-029-66	TRANSISTOR DTC114ESA-TP					(XB50/XB60)
Q1533	8-729-029-66	TRANSISTOR DTC114ESA-TP		R182	1-260-076-11	CARBON 10 5%	1/2W
Q1534	8-729-119-77	TRANSISTOR 2SA1175TP-FEK					(XB50/XB60)
Q1535	8-729-029-66	TRANSISTOR DTC114ESA-TP		R183	1-260-091-11	CARBON 220 5%	1/2W
				R184	1-260-091-11	CARBON 220 5%	1/2W
				R191	1-249-425-11	CARBON 4.7K 5%	1/4W F
							(XB44)
R101	1-249-417-11	CARBON 1K 5%	1/4W F	R192	1-249-441-11	CARBON 100K 5%	1/4W
			(XB50/XB60)				(XB44)
R102	1-249-417-11	CARBON 1K 5%	1/4W F	R193	1-249-421-11	CARBON 2.2K 5%	1/4W F
R103	1-249-437-11	CARBON 47K 5%	1/4W				(XB44)
R104	1-249-417-11	CARBON 1K 5%	1/4W F	R194	1-249-437-11	CARBON 47K 5%	1/4W
R105	1-247-897-11	CARBON 560K 5%	1/4W				(XB44)
R106	1-249-437-11	CARBON 47K 5%	1/4W	R195	1-249-437-11	CARBON 47K 5%	1/4W
R107	1-249-417-11	CARBON 1K 5%	1/4W F				(XB44)
R108	1-249-441-11	CARBON 100K 5%	1/4W	R201	1-249-429-11	CARBON 10K 5%	1/4W
R109	1-247-815-91	CARBON 220 5%	1/4W	R202	1-247-863-91	CARBON 22K 5%	1/4W
			(XB50/XB60)	R203	1-249-441-11	CARBON 100K 5%	1/4W
R121	1-249-424-11	CARBON 3.9K 5%	1/4W F	R205	1-247-863-91	CARBON 22K 5%	1/4W
				R206	1-249-421-11	CARBON 2.2K 5%	1/4W F
R122	1-247-887-00	CARBON 220K 5%	1/4W	R207	1-249-431-11	CARBON 15K 5%	1/4W
R123	1-249-426-11	CARBON 5.6K 5%	1/4W	R209	1-249-441-11	CARBON 100K 5%	1/4W
			(XB33/XB44/XB50/XB60)	R210	1-247-891-00	CARBON 330K 5%	1/4W
R124	1-249-429-11	CARBON 10K 5%	1/4W				(XB50)
			(XB33/XB44/XB50/XB60)	R210	1-247-896-11	CARBON 510K 5%	1/4W
R125	1-249-441-11	CARBON 100K 5%	1/4W				(EXCEPT XB50)
			(XB33/XB44/XB50/XB60)	R211	1-247-891-00	CARBON 330K 5%	1/4W
R126	1-249-417-11	CARBON 1K 5%	1/4W F				(D790/XB44/XB60)
			(XB33/XB44/XB50/XB60)	R211	1-249-441-11	CARBON 100K 5%	1/4W
R127	1-249-441-11	CARBON 100K 5%	1/4W				(XB50)
			(XB33/XB44/XB50/XB60)	R212	1-247-826-00	CARBON 620 5%	1/4W
R131	1-260-076-11	CARBON 10 5%	1/2W				(EXCEPT XB50)
			(XB50/XB60)	R212	1-249-411-11	CARBON 330 5%	1/4W
R132	1-260-076-11	CARBON 10 5%	1/2W				(XB50)
			(XB50/XB60)	R213	1-249-429-11	CARBON 10K 5%	1/4W
R133	1-260-091-11	CARBON 220 5%	1/2W	R214	1-249-437-11	CARBON 47K 5%	1/4W
R134	1-260-091-11	CARBON 220 5%	1/2W				
R140	1-249-429-11	CARBON 10K 5%	1/4W	R215	1-247-903-00	CARBON 1M 5%	1/4W
R141	1-249-437-11	CARBON 47K 5%	1/4W	R216	1-249-429-11	CARBON 10K 5%	1/4W
R142	1-249-429-11	CARBON 10K 5%	1/4W	R217	1-249-437-11	CARBON 47K 5%	1/4W
△R147	1-215-893-11	METAL OXIDE 1.5K 5%	2W F	R221	1-249-425-11	CARBON 4.7K 5%	1/4W F
			(D390/D790/G5500/XB60)	R222	1-249-425-11	CARBON 4.7K 5%	1/4W F
△R147	1-216-457-00	METAL OXIDE 1.2K 5%	2W F				
			(XB33/XB50)				
△R147	1-216-458-11	METAL OXIDE 1.8K 5%	2W F				
			(XB44)				
R151	1-249-417-11	CARBON 1K 5%	1/4W F				
			(XB50/XB60)				
R152	1-249-417-11	CARBON 1K 5%	1/4W F				

Note:
The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R226	1-249-421-11	CARBON	2.2K	5%	1/4W F	R316	1-249-429-11	CARBON	10K	5%	1/4W
R227	1-249-441-11	CARBON	100K	5%	1/4W	R318	1-249-429-11	CARBON	10K	5%	1/4W
R228	1-249-429-11	CARBON	10K	5%	1/4W	R319	1-249-429-11	CARBON	10K	5%	1/4W
R231	1-249-437-11	CARBON	47K	5%	1/4W	R320	1-249-429-11	CARBON	10K	5%	1/4W
R232	1-249-437-11	CARBON	47K	5%	1/4W	R322	1-249-425-11	CARBON	4.7K	5%	1/4W F
R234	1-247-886-11	CARBON	200K	5%	1/4W	R323	1-247-807-31	CARBON	100	5%	1/4W
R235	1-249-421-11	CARBON	2.2K	5%	1/4W F	R325	1-247-843-11	CARBON	3.3K	5%	1/4W
R236	1-249-441-11	CARBON	100K	5%	1/4W	(XB50: AEP, UK/XB60: AEP, UK)					
R253	1-249-441-11	CARBON	100K	5%	1/4W	R325	1-249-427-11	CARBON	6.8K	5%	1/4W F
R257	1-249-431-11	CARBON	15K	5%	1/4W	(XB33: E, AR, MX/XB44: E, AR, MX/XB50: EE, CIS/XB60: EE, CIS)					
R259	1-249-441-11	CARBON	100K	5%	1/4W	R325	1-249-431-11	CARBON	15K	5%	1/4W
R260	1-247-891-00	CARBON	330K	5%	1/4W	(XB33: SAF, AUS/XB44: SAF, AUS)					
R260	1-247-896-11	CARBON	510K	5%	1/4W	R326	1-249-415-11	CARBON	680	5%	1/4W F
					(XB50)	(XB33: SAF, AUS/XB44: SAF, AUS)					
R261	1-247-891-00	CARBON	330K	5%	1/4W	R326	1-249-425-11	CARBON	4.7K	5%	1/4W F
R261	1-249-441-11	CARBON	100K	5%	1/4W	(XB33: E, AR, MX/XB44: E, AR, MX)					
					(D790/XB44/XB60)	R326	1-249-427-11	CARBON	6.8K	5%	1/4W F
R262	1-247-826-00	CARBON	620	5%	1/4W	(XB50: AEP, UK/XB6: AEP, UK)					
R262	1-249-411-11	CARBON	330	5%	1/4W	R326	1-249-435-11	CARBON	33K	5%	1/4W
					(XB50)	(XB50: EE, CIS/XB60: EE, CIS)					
R263	1-249-429-11	CARBON	10K	5%	1/4W	R327	1-247-807-31	CARBON	100	5%	1/4W
R264	1-249-437-11	CARBON	47K	5%	1/4W	R328	1-247-807-31	CARBON	100	5%	1/4W
R265	1-247-903-00	CARBON	1M	5%	1/4W	R330	1-247-807-31	CARBON	100	5%	1/4W
R266	1-249-429-11	CARBON	10K	5%	1/4W	R331	1-247-807-31	CARBON	100	5%	1/4W
R267	1-249-437-11	CARBON	47K	5%	1/4W	R332	1-247-807-31	CARBON	100	5%	1/4W
R271	1-249-425-11	CARBON	4.7K	5%	1/4W F	R333	1-247-807-31	CARBON	100	5%	1/4W
R272	1-249-425-11	CARBON	4.7K	5%	1/4W F	R339	1-247-807-31	CARBON	100	5%	1/4W
R276	1-249-421-11	CARBON	2.2K	5%	1/4W F	R340	1-247-807-31	CARBON	100	5%	1/4W
R277	1-249-441-11	CARBON	100K	5%	1/4W	R341	1-247-807-31	CARBON	100	5%	1/4W
R278	1-249-429-11	CARBON	10K	5%	1/4W	R342	1-247-807-31	CARBON	100	5%	1/4W
R281	1-249-429-11	CARBON	10K	5%	1/4W	R344	1-247-807-31	CARBON	100	5%	1/4W
R282	1-249-429-11	CARBON	10K	5%	1/4W	R345	1-247-807-31	CARBON	100	5%	1/4W
R283	1-249-435-11	CARBON	33K	5%	1/4W	R346	1-247-807-31	CARBON	100	5%	1/4W
R284	1-247-791-91	CARBON	22	5%	1/4W	R349	1-247-807-31	CARBON	100	5%	1/4W
R285	1-249-441-11	CARBON	100K	5%	1/4W	R350	1-247-807-31	CARBON	100	5%	1/4W
R286	1-249-429-11	CARBON	10K	5%	1/4W	R351	1-247-807-31	CARBON	100	5%	1/4W
R287	1-249-429-11	CARBON	10K	5%	1/4W	R352	1-247-807-31	CARBON	100	5%	1/4W
R288	1-249-438-11	CARBON	56K	5%	1/4W	R353	1-247-807-31	CARBON	100	5%	1/4W
R289	1-249-437-11	CARBON	47K	5%	1/4W	R354	1-247-807-31	CARBON	100	5%	1/4W
R291	1-247-863-91	CARBON	22K	5%	1/4W	R355	1-247-807-31	CARBON	100	5%	1/4W
R292	1-247-863-91	CARBON	22K	5%	1/4W	R356	1-247-807-31	CARBON	100	5%	1/4W
R293	1-247-843-11	CARBON	3.3K	5%	1/4W	R357	1-247-807-31	CARBON	100	5%	1/4W
R293	1-249-421-11	CARBON	2.2K	5%	1/4W F	R359	1-247-807-31	CARBON	100	5%	1/4W
					(XB50)	R360	1-247-807-31	CARBON	100	5%	1/4W
R293	1-249-421-11	CARBON	2.2K	5%	1/4W F	R366	1-247-807-31	CARBON	100	5%	1/4W
					(EXCEPT XB50)	R367	1-249-429-11	CARBON	10K	5%	1/4W
R294	1-249-441-11	CARBON	100K	5%	1/4W	R368	1-247-843-11	CARBON	3.3K	5%	1/4W
R295	1-247-903-00	CARBON	1M	5%	1/4W	R369	1-249-429-11	CARBON	10K	5%	1/4W
R301	1-249-413-11	CARBON	470	5%	1/4W F	R384	1-249-429-11	CARBON	10K	5%	1/4W
R302	1-249-425-11	CARBON	4.7K	5%	1/4W F	R395	1-247-807-31	CARBON	100	5%	1/4W
R303	1-249-437-11	CARBON	47K	5%	1/4W	R396	1-249-435-11	CARBON	33K	5%	1/4W
R304	1-249-437-11	CARBON	47K	5%	1/4W	R397	1-247-807-31	CARBON	100	5%	1/4W
R305	1-249-429-11	CARBON	10K	5%	1/4W	R398	1-249-435-11	CARBON	33K	5%	1/4W
R313	1-247-807-31	CARBON	100	5%	1/4W	R417	1-249-441-11	CARBON	100K	5%	1/4W
R314	1-247-807-31	CARBON	100	5%	1/4W	R913	1-247-815-91	CARBON	220	5%	1/4W
R315	1-247-807-31	CARBON	100	5%	1/4W	R914	1-249-417-11	CARBON	1K	5%	1/4W F
					(XB50: AEP, UK/XB60: AEP, UK)	R915	1-249-425-11	CARBON	4.7K	5%	1/4W F
R315	1-247-807-31	CARBON	100	5%	1/4W	(XB50: AEP, UK/XB60: AEP, UK)					
					(XB50: AEP, UK/XB60: AEP, UK)						

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description				Remarks	
R916	1-247-815-91	CARBON	220	5%	1/4W			< VIBRATOR >					
R917	1-247-815-91	CARBON	220	5%	1/4W								
R918	1-249-425-11	CARBON	4.7K	5%	1/4W	F	X301	1-760-489-11	VIBRATOR, CERAMIC (5MHz)				
R920	1-249-417-11	CARBON	1K	5%	1/4W	F	X302	1-567-098-41	VIBRATOR, CRYSTAL (32.768MHz)				
R921	1-247-895-91	CARBON	470K	5%	1/4W		*****						
R951	1-249-425-11	CARBON	4.7K	5%	1/4W	F	*	A-4403-872-A	PANEL BOARD, COMPLETE				
R952	1-249-425-11	CARBON	4.7K	5%	1/4W	F			*****				
R1501	1-249-435-11	CARBON	33K	5%	1/4W				(D390/G5500/XB33/XB50: EE, CIS)				
R1502	1-249-417-11	CARBON	1K	5%	1/4W	F	*	A-4403-885-A	PANEL BOARD, COMPLETE (XB60: AEP, UK)				
R1503	1-249-426-11	CARBON	5.6K	5%	1/4W				*****				
							*	A-4403-892-A	PANEL BOARD, COMPLETE (XB50: AEP, UK)				
R1504	1-247-840-00	CARBON	2.4K	5%	1/4W				*****				
R1505	1-247-863-91	CARBON	22K	5%	1/4W		*	A-4403-906-A	PANEL BOARD, COMPLETE				
R1506	1-249-421-11	CARBON	2.2K	5%	1/4W	F			*****				
R1507	1-249-428-11	CARBON	8.2K	5%	1/4W	F			(D790/XB44/XB60: EE, CIS)				
R1521	1-247-852-11	CARBON	7.5K	5%	1/4W								
							*	4-932-810-31	CUSHION (FL)				
R1522	1-249-422-11	CARBON	2.7K	5%	1/4W	F	*	4-978-168-01	HOLDER, FL TUBE				
R1524	1-249-429-11	CARBON	10K	5%	1/4W								
R1525	1-249-432-11	CARBON	18K	5%	1/4W				< CAPACITOR >				
R1526	1-249-429-11	CARBON	10K	5%	1/4W								
R1527	1-249-429-11	CARBON	10K	5%	1/4W		C601	1-126-967-11	ELECT	47uF	20%	50V	
							C602	1-162-306-11	CERAMIC	0.01uF	20%	16V	
R1531	1-247-843-11	CARBON	3.3K	5%	1/4W		C603	1-126-963-11	ELECT	4.7uF	20%	50V	
R1532	1-249-411-11	CARBON	330	5%	1/4W		C604	1-126-960-11	ELECT	1uF	20%	50V	
R1533	1-249-427-11	CARBON	6.8K	5%	1/4W	F	C606	1-126-960-11	ELECT	1uF	20%	50V	
R1534	1-249-429-11	CARBON	10K	5%	1/4W								
R1535	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C608	1-126-382-11	ELECT	100uF	20%	6.3V	
							C610	1-162-306-11	CERAMIC	0.01uF	20%	16V	
R1536	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C611	1-162-306-11	CERAMIC	0.01uF	20%	16V	
R1541	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C621	1-126-957-11	ELECT	0.22uF	20%	50V	
R1542	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C622	1-162-306-11	CERAMIC	0.01uF	20%	16V	
R1543	1-249-425-11	CARBON	4.7K	5%	1/4W	F							
R1544	1-249-417-11	CARBON	1K	5%	1/4W	F	C623	1-126-957-11	ELECT	0.22uF	20%	50V	
							C624	1-136-159-00	FILM	0.033uF	5%	50V	
R1545	1-249-437-11	CARBON	47K	5%	1/4W		C625	1-162-302-11	CERAMIC	0.0022uF	20%	16V	
R1546	1-249-437-11	CARBON	47K	5%	1/4W		C626	1-126-957-11	ELECT	0.22uF	20%	50V	
R1547	1-249-437-11	CARBON	47K	5%	1/4W		C632	1-126-957-11	ELECT	0.22uF	20%	50V	
R1548	1-249-437-11	CARBON	47K	5%	1/4W								
R1551	1-247-863-91	CARBON	22K	5%	1/4W		C641	1-162-286-21	CERAMIC	220PF	10%	50V	
							C642	1-162-286-21	CERAMIC	220PF	10%	50V	
R1552	1-249-417-11	CARBON	1K	5%	1/4W	F	C643	1-162-286-21	CERAMIC	220PF	10%	50V	
R1553	1-249-426-11	CARBON	5.6K	5%	1/4W		C644	1-162-286-21	CERAMIC	220PF	10%	50V	
R1554	1-247-840-00	CARBON	2.4K	5%	1/4W		C645	1-162-286-21	CERAMIC	220PF	10%	50V	
R1555	1-247-863-91	CARBON	22K	5%	1/4W								
R1556	1-249-421-11	CARBON	2.2K	5%	1/4W	F	C646	1-162-286-21	CERAMIC	220PF	10%	50V	
							C647	1-162-286-21	CERAMIC	220PF	10%	50V	
R1557	1-249-428-11	CARBON	8.2K	5%	1/4W	F	C648	1-162-286-21	CERAMIC	220PF	10%	50V	
							C649	1-162-286-21	CERAMIC	220PF	10%	50V	
		< VARIABLE RESISTOR >					C650	1-162-286-21	CERAMIC	220PF	10%	50V	
RV1501	1-238-598-11	RES, ADJ, CARBON 2.2K					C651	1-162-286-21	CERAMIC	220PF	10%	50V	
RV1551	1-238-598-11	RES, ADJ, CARBON 2.2K					C652	1-162-286-21	CERAMIC	220PF	10%	50V	
							C653	1-162-286-21	CERAMIC	220PF	10%	50V	
		< RELAY >					C654	1-162-286-21	CERAMIC	220PF	10%	50V	
							C655	1-162-286-21	CERAMIC	220PF	10%	50V	
RY141	1-755-141-11	RELAY											
		< TERMINAL >					C696	1-164-159-21	CERAMIC	0.1uF		50V	
							C697	1-162-294-31	CERAMIC	0.001uF	10%	50V	
							C698	1-136-165-00	FILM	0.1uF	5%	50V	
TM131	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SPEAKER)							(D390/G5500/XB33/XB50)				
		(D390/D790/G5500/XB33/XB44)											
TM131	1-537-801-11	TERMINAL BOARD (SPEAKER) (XB50/XB60)											
TM132	1-537-240-31	TERMINAL BOARD (CHECKER PIN)											
		(SURROUND SPEAKER) (D790/XB33/XB50/XB60)											

PANEL

Ref. No.	Part No.	Description	Remarks
< CONNECTOR >			
* CN601	1-568-836-11	SOCKET, CONNECTOR 17P	
CN602	1-506-486-11	PIN, CONNECTOR 7P	
* CN603	1-568-944-11	PIN, CONNECTOR 6P	
* CN604	1-568-946-11	PIN, CONNECTOR 8P	
< DIODE >			
D601	8-719-991-33	DIODE 1SS133T-77	
D602	8-719-991-33	DIODE 1SS133T-77	
D606	8-719-991-33	DIODE 1SS133T-77	
D607	8-719-991-33	DIODE 1SS133T-77	
D611	8-719-057-10	DIODE LNJ301MPUJAB (TUNER/BAND)	
D612	8-719-057-10	DIODE LNJ301MPUJAB (TUNER/BAND)	
D613	8-719-058-04	DIODE SEL5223S-TP15 (ENTER/NEXT)	
D614	8-719-058-04	DIODE SEL5223S-TP15 (GROOVE)	
D615	8-719-058-04	DIODE SEL5223S-TP15 (SUPER WOOFER) (D790/XB44/XB60)	
D616	8-719-058-04	DIODE SEL5223S-TP15 (EFFECT)	
D617	8-719-058-04	DIODE SEL5223S-TP15 (ENTER)	
D618	8-719-058-04	DIODE SEL5223S-TP15 (FILE 1)	
D619	8-719-058-04	DIODE SEL5223S-TP15 (FILE 2)	
D620	8-719-058-04	DIODE SEL5223S-TP15 (FILE 3)	
D621	8-719-058-04	DIODE SEL5223S-TP15 (FILE 4)	
D622	8-719-058-04	DIODE SEL5223S-TP15 (FILE 5)	
D623	8-719-058-04	DIODE SEL5223S-TP15 (P FILE)	
D624	8-719-058-04	DIODE SEL5223S-TP15 (MENU 2)	
D625	8-719-058-04	DIODE SEL5223S-TP15 (MENU 1)	
< FERRITE BEAD >			
FB601	1-412-473-21	INDUCTOR 0uH	
< FILTER >			
FL601	1-517-619-11	INDICATOR TUBE, FLUORESCENT	
< IC >			
IC601	8-759-493-77	IC TMP87CH74F-6638	
IC602	8-759-459-84	IC NJL56H400	
< COIL >			
L601	1-410-509-11	INDUCTOR 10uH	
< TRANSISTOR >			
Q601	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q601	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
Q602	8-729-118-00	TRANSISTOR 2SB1116-TP-LK	
Q603	8-729-118-00	TRANSISTOR 2SB1116-TP-LK	
Q604	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q605	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q606	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q607	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q608	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q609	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q610	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q611	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q614	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q617	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q618	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	

Ref. No.	Part No.	Description	Remarks
Q619	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q621	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
< RESISTOR >			
R601	1-249-415-11	CARBON 680 5% 1/4W F (D790/XB44/XB60)	
R602	1-249-431-11	CARBON 15K 5% 1/4W (D790/XB44/XB60)	
R603	1-247-903-00	CARBON 1M 5% 1/4W	
R608	1-249-429-11	CARBON 10K 5% 1/4W	
R609	1-247-843-11	CARBON 3.3K 5% 1/4W	
R610	1-247-843-11	CARBON 3.3K 5% 1/4W	
R611	1-249-429-11	CARBON 10K 5% 1/4W	
R612	1-249-429-11	CARBON 10K 5% 1/4W	
R613	1-249-401-11	CARBON 47 5% 1/4W F	
R614	1-249-429-11	CARBON 10K 5% 1/4W	
R615	1-249-429-11	CARBON 10K 5% 1/4W	
R616	1-249-429-11	CARBON 10K 5% 1/4W	
R617	1-249-429-11	CARBON 10K 5% 1/4W	
R621	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R622	1-249-437-11	CARBON 47K 5% 1/4W	
R623	1-247-895-91	CARBON 470K 5% 1/4W	
R624	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R625	1-249-437-11	CARBON 47K 5% 1/4W	
R626	1-247-895-91	CARBON 470K 5% 1/4W	
R633	1-247-897-11	CARBON 560K 5% 1/4W	
R634	1-247-897-11	CARBON 560K 5% 1/4W	
R636	1-249-435-11	CARBON 33K 5% 1/4W	
R637	1-247-895-91	CARBON 470K 5% 1/4W	
R641	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R642	1-247-815-91	CARBON 220 5% 1/4W	
R643	1-249-410-11	CARBON 270 5% 1/4W F	
R644	1-249-412-11	CARBON 390 5% 1/4W F	
R645	1-249-413-11	CARBON 470 5% 1/4W F	
R646	1-249-415-11	CARBON 680 5% 1/4W F	
R647	1-249-416-11	CARBON 820 5% 1/4W F	
R648	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R649	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R650	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R651	1-247-815-91	CARBON 220 5% 1/4W	
R652	1-249-410-11	CARBON 270 5% 1/4W F	
R653	1-249-412-11	CARBON 390 5% 1/4W F	
R654	1-249-413-11	CARBON 470 5% 1/4W F	
R655	1-249-415-11	CARBON 680 5% 1/4W F	
R656	1-249-416-11	CARBON 820 5% 1/4W F	
R657	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R658	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R659	1-247-815-91	CARBON 220 5% 1/4W	
R660	1-249-410-11	CARBON 270 5% 1/4W F	
R661	1-249-412-11	CARBON 390 5% 1/4W F	
R662	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R663	1-247-815-91	CARBON 220 5% 1/4W	
R664	1-249-410-11	CARBON 270 5% 1/4W F	
R665	1-249-412-11	CARBON 390 5% 1/4W F	
R666	1-249-413-11	CARBON 470 5% 1/4W F	
R667	1-249-415-11	CARBON 680 5% 1/4W F	

PANEL

POWER AMP

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R668	1-249-416-11	CARBON	820 5% 1/4W F	S621	1-554-303-21	SWITCH, TACTILE (POWER)	
R669	1-249-418-11	CARBON	1.2K 5% 1/4W F	S622	1-554-303-21	SWITCH, TACTILE (CLOCK SET)	
R670	1-249-419-11	CARBON	1.5K 5% 1/4W F	S623	1-554-303-21	SWITCH, TACTILE (REC)	
R671	1-249-421-11	CARBON	2.2K 5% 1/4W F	S624	1-554-303-21	SWITCH, TACTILE (DAILY 1)	
R672	1-247-843-11	CARBON	3.3K 5% 1/4W	S625	1-554-303-21	SWITCH, TACTILE (DAILY 2)	
R673	1-249-425-11	CARBON	4.7K 5% 1/4W F	S626	1-554-303-21	SWITCH, TACTILE (SLEEP)	
R674	1-249-427-11	CARBON	6.8K 5% 1/4W F	S628	1-554-303-21	SWITCH, TACTILE (WAVE)	
R675	1-249-429-11	CARBON	10K 5% 1/4W	S629	1-554-303-21	SWITCH, TACTILE (KARAOKE PON/MPX)	
R676	1-249-432-11	CARBON	18K 5% 1/4W	S630	1-554-303-21	SWITCH, TACTILE (SURROUND)	
R677	1-249-436-11	CARBON	39K 5% 1/4W	S631	1-554-303-21	SWITCH, TACTILE (P FILE MEMORY)	
R678	1-249-413-11	CARBON	470 5% 1/4W F	S634	1-554-303-21	SWITCH, TACTILE (PTY)	
R681	1-249-429-11	CARBON	10K 5% 1/4W			(XB50: AEP, UK/XB60: AEP, UK)	
R682	1-249-421-11	CARBON	2.2K 5% 1/4W F	S701	1-473-392-11	ENCODER, ROTARY (VOLUME)	
R683	1-247-887-00	CARBON	220K 5% 1/4W			< VIBRATOR >	
R684	1-249-421-11	CARBON	2.2K 5% 1/4W F				
R685	1-247-815-91	CARBON	220 5% 1/4W	X601	1-579-125-11	VIBRATOR, CERAMIC (8MHz)	
R686	1-247-807-31	CARBON	100 5% 1/4W			*****	
R687	1-247-807-31	CARBON	100 5% 1/4W				
R688	1-247-807-31	CARBON	100 5% 1/4W	*	A-4392-442-A	POWER AMP BOARD, COMPLETE	
R689	1-247-807-31	CARBON	100 5% 1/4W			*****	
						(D390/D790/G5500)	
R690	1-247-807-31	CARBON	100 5% 1/4W	*	A-4403-868-A	POWER AMP BOARD, COMPLETE (XB60)	
			(D790/XB44/XB60)			*****	
R691	1-247-807-31	CARBON	100 5% 1/4W	*	A-4403-888-A	POWER AMP BOARD, COMPLETE (XB44)	
R692	1-247-807-31	CARBON	100 5% 1/4W			*****	
R693	1-247-807-31	CARBON	100 5% 1/4W	*	A-4403-900-A	POWER AMP BOARD, COMPLETE (XB50)	
R694	1-247-807-31	CARBON	100 5% 1/4W			*****	
R695	1-247-807-31	CARBON	100 5% 1/4W	*	A-4403-912-A	POWER AMP BOARD, COMPLETE (XB33)	
R696	1-247-807-31	CARBON	100 5% 1/4W			*****	
R697	1-247-807-31	CARBON	100 5% 1/4W			< CAPACITOR >	
R698	1-247-807-31	CARBON	100 5% 1/4W				
R699	1-247-807-31	CARBON	100 5% 1/4W	C801	1-128-582-11	ELECT	10uF 20% 100V
				C802	1-162-286-21	CERAMIC	220PF 10% 50V
R700	1-247-807-31	CARBON	100 5% 1/4W	C803	1-162-282-31	CERAMIC	100PF 10% 50V
				C804	1-126-967-11	ELECT	47uF 20% 50V
				C806	1-126-967-11	ELECT	47uF 20% 50V
				C807	1-128-560-11	ELECT	22uF 20% 100V
				C808	1-130-777-00	FILM	0.1uF 10% 100V
						(XB50/XB60)	
S601	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)		C809	1-128-560-11	ELECT	22uF 20% 100V
S602	1-554-303-21	SWITCH, TACTILE (TUNER MEMORY)		C810	1-164-159-21	CERAMIC	0.1uF 50V
S603	1-554-303-21	SWITCH, TACTILE (TUNING MODE)		C811	1-130-493-00	MYLAR	0.068uF 5% 50V
S604	1-554-303-21	SWITCH, TACTILE (TUNER/BAND)					
S605	1-554-303-21	SWITCH, TACTILE (TUNING +)		C812	1-130-493-00	MYLAR	0.068uF 5% 50V
S606	1-554-303-21	SWITCH, TACTILE (TUNING -)		C814	1-162-294-31	CERAMIC	0.001uF 10% 50V
S607	1-554-303-21	SWITCH, TACTILE (STEREO/MONO)		C816	1-162-306-11	CERAMIC	0.01uF 20% 16V
S608	1-554-303-21	SWITCH, TACTILE (FUNCTION)				(XB50/XB60)	
S609	1-554-303-21	SWITCH, TACTILE (GROOVE)		C841	1-126-925-11	ELECT	470uF 20% 10V
S610	1-554-303-21	SWITCH, TACTILE (GEQ Δ)		C851	1-128-582-11	ELECT	10uF 20% 100V
S611	1-554-303-21	SWITCH, TACTILE (GEQ <1)					
S612	1-554-303-21	SWITCH, TACTILE (GEQ >2)		C852	1-162-286-21	CERAMIC	220PF 10% 50V
S613	1-554-303-21	SWITCH, TACTILE (GEQ ▽)		C853	1-162-282-31	CERAMIC	100PF 10% 50V
S614	1-554-303-21	SWITCH, TACTILE (SUPER WOOFER)		C854	1-126-967-11	ELECT	47uF 20% 50V
S615	1-554-303-21	SWITCH, TACTILE (SUPER W MODE)		C856	1-126-967-11	ELECT	47uF 20% 50V
			(D790/XB44/XB60)	C857	1-128-560-11	ELECT	22uF 20% 100V
S616	1-554-303-21	SWITCH, TACTILE (GEQ CONTROL)					
S617	1-554-303-21	SWITCH, TACTILE (ENTER)		C858	1-130-777-00	FILM	0.1uF 10% 100V
S618	1-554-303-21	SWITCH, TACTILE (EFFECT)				(XB50/XB60)	
S619	1-554-303-21	SWITCH, TACTILE (SPECTRUM ANALYZER)		C861	1-130-493-00	MYLAR	0.068uF 5% 50V
S620	1-554-303-21	SWITCH, TACTILE (DISPLAY/DEMO)		C862	1-130-493-00	MYLAR	0.068uF 5% 50V
				C901	1-104-482-11	ELECT	4700uF 20% 63V
						(D390/D790/G5500/XB60)	
				C901	1-117-750-11	ELECT	3300uF 20% 63V
						(XB33/XB50)	

POWER AMP

TABLE SENSOR

TC-A SW

Ref. No.	Part No.	Description				Remarks
C901	1-128-493-11	ELECT	4700uF	20%	71V (XB44)	
C902	1-130-777-00	FILM	0.1uF	10%	100V	
C951	1-104-482-11	ELECT	4700uF	20%	63V (D390/D790/G5500/XB60)	
C951	1-117-750-11	ELECT	3300uF	20%	63V (XB33/XB50)	
C951	1-128-493-11	ELECT	4700uF	20%	71V (XB44)	
C952	1-130-777-00	FILM	0.1uF	10%	100V	
< CONNECTOR >						
CN801	1-778-981-11	CONNECTOR, BOARD TO BOARD 13P				
< DIODE >						
D801	8-719-991-33	DIODE	1SS133T-77			
D841	8-719-991-33	DIODE	1SS133T-77			
D842	8-719-991-33	DIODE	1SS133T-77			
D851	8-719-991-33	DIODE	1SS133T-77			
D901	8-719-510-68	DIODE	D5SBA204101			
< IC >						
IC801	8-749-921-68	IC	STK4231MK2 (EXCEPT XB50)			
IC801	8-749-922-65	IC	STK4221MK2 (XB50)			
< TRANSISTOR >						
Q801	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
Q851	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
< RESISTOR >						
R801	1-249-417-11	CARBON	1K	5%	1/4W F	
R802	1-249-437-11	CARBON	47K	5%	1/4W	
R803	1-249-413-11	CARBON	470	5%	1/4W F	
(EXCEPT XB50)						
R803	1-249-414-11	CARBON	560	5%	1/4W F	
(XB50)						
R804	1-249-437-11	CARBON	47K	5%	1/4W	
(EXCEPT XB44)						
R804	1-249-438-11	CARBON	56K	5%	1/4W	
(XB44)						
R805	1-260-107-11	CARBON	4.7K	5%	1/2W	
R806	1-260-107-11	CARBON	4.7K	5%	1/2W	
△ R807	1-212-881-11	FUSIBLE	100	5%	1/4W F	
△ R808	1-220-893-11	METAL	0.22	10%	5W	
R809	1-260-076-11	CARBON	10	5%	1/2W	
R811	1-249-417-11	CARBON	1K	5%	1/4W F	
R812	1-249-431-11	CARBON	15K	5%	1/4W	
R813	1-249-441-11	CARBON	100K	5%	1/4W	
R814	1-260-105-11	CARBON	3.3K	5%	1/2W	
R816	1-260-105-11	CARBON	3.3K	5%	1/2W	
△ R820	1-202-972-61	FUSIBLE	1	5%	1/4W F	
R841	1-249-426-11	CARBON	5.6K	5%	1/4W	
R842	1-247-889-00	CARBON	270K	5%	1/4W	
R843	1-249-421-11	CARBON	2.2K	5%	1/4W F	
R844	1-249-429-11	CARBON	10K	5%	1/4W	
R851	1-249-417-11	CARBON	1K	5%	1/4W F	
R852	1-249-437-11	CARBON	47K	5%	1/4W	
R853	1-249-413-11	CARBON	470	5%	1/4W F	
(EXCEPT XB50)						
R853	1-249-414-11	CARBON	560	5%	1/4W F	
(XB50)						

Ref. No.	Part No.	Description	Remarks			
R854	1-249-437-11	CARBON	47K	5%	1/4W	(EXCEPT XB44)
R854	1-249-438-11	CARBON	56K	5%	1/4W	(XB44)
R855	1-260-107-11	CARBON	4.7K	5%	1/2W	
R856	1-260-107-11	CARBON	4.7K	5%	1/2W	
△ R857	1-212-881-11	FUSIBLE	100	5%	1/4W	F
△ R858	1-220-893-11	METAL	0.22	10%	5W	
R859	1-260-076-11	CARBON	10	5%	1/2W	
R861	1-249-417-11	CARBON	1K	5%	1/4W	F
R862	1-249-431-11	CARBON	15K	5%	1/4W	
R863	1-249-441-11	CARBON	100K	5%	1/4W	

1-659-058-13		TABLE SENSOR BOARD				

< IC >						
IC202	8-749-924-18	IC	PHOTO INTERRUPTER RPI-1391			
< RESISTOR >						
R207	1-249-416-11	CARBON	820	5%	1/4W	

*	1-664-012-11	TC-A SW BOARD				

< CONNECTOR >						
* CN612	1-568-943-11	PIN, CONNECTOR 5P				
< DIODE >						
D631	8-719-057-10	DIODE	LNJ301MPUJAB (▷)			
D632	8-719-057-10	DIODE	LNJ301MPUJAB (◁)			
< RESISTOR >						
R705	1-249-415-11	CARBON	680	5%	1/4W	F
R706	1-249-416-11	CARBON	820	5%	1/4W	F
R707	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R708	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R709	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R710	1-247-843-11	CARBON	3.3K	5%	1/4W	
R711	1-247-807-31	CARBON	100	5%	1/4W	
R714	1-247-807-31	CARBON	100	5%	1/4W	
< SWITCH >						
S641	1-554-303-21	SWITCH, TACTILE (▷)				
S642	1-554-303-21	SWITCH, TACTILE (◁)				
S643	1-554-303-21	SWITCH, TACTILE (■)				
S644	1-554-303-21	SWITCH, TACTILE (◀▶)				
S645	1-554-303-21	SWITCH, TACTILE (▶▶)				
S646	1-554-303-21	SWITCH, TACTILE (DOLBY NR)				
S647	1-554-303-21	SWITCH, TACTILE (DIRECTION)				

Note:

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remarks				Ref. No.	Part No.	Description	Remarks			
*	1-664-013-11	TC-B SW BOARD *****					C32	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
							C33	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
		< DIODE >					C34	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	
							C35	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
							C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
D635	8-719-057-10	DIODE LNJ301MPUJAB (◁)					C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
D636	8-719-057-10	DIODE LNJ301MPUJAB (▷)					C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
D637	8-719-058-17	DIODE LNG401NPYJA (■)					C40	1-126-967-11	ELECT	47uF	20%	16V	
D638	8-719-057-09	DIODE LNJ801LPDJA (● REC)					C41	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
		< RESISTOR >					C42	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
							C43	1-163-031-91	CERAMIC CHIP	0.01uF		50V	
R715	1-249-421-11	CARBON	2.2K	5%	1/4W	F	C44	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
R716	1-247-843-11	CARBON	3.3K	5%	1/4W		C45	1-163-077-00	CERAMIC CHIP	0.1uF		50V	
R717	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C46	1-126-967-11	ELECT	47uF	20%	16V	
R718	1-249-427-11	CARBON	6.8K	5%	1/4W	F	C47	1-126-301-11	ELECT	1.0uF	20%	50V	
R719	1-249-429-11	CARBON	10K	5%	1/4W								
							C48	1-163-059-00	CERAMIC CHIP	0.01uF		50V	
R720	1-249-432-11	CARBON	18K	5%	1/4W		C49	1-126-964-11	ELECT	10uF	20%	50V	
R721	1-249-436-11	CARBON	39K	5%	1/4W		C50	1-126-960-11	ELECT	1.0uF	20%	50V	
R722	1-247-881-00	CARBON	120K	5%	1/4W		C51	1-126-959-11	ELECT	0.47uF	20%	50V	
R724	1-247-807-31	CARBON	100	5%	1/4W		C52	1-126-960-11	ELECT	1.0uF	20%	50V	
R725	1-247-807-31	CARBON	100	5%	1/4W								
							C53	1-126-964-11	ELECT	10uF	20%	50V	
R727	1-247-807-31	CARBON	100	5%	1/4W		C54	1-104-396-11	ELECT	10uF	20%	16V	
R728	1-247-807-31	CARBON	100	5%	1/4W		C55	1-104-396-11	ELECT	10uF	20%	16V	
		< SWITCH >					C56	1-104-396-11	ELECT	10uF	20%	16V	
							C57	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V	
S651	1-554-303-21	SWITCH, TACTILE (▷)					C58	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V	
S652	1-554-303-21	SWITCH, TACTILE (◁)					C59	1-163-989-11	CERAMIC CHIP	33000PF	10%	25V	
S653	1-554-303-21	SWITCH, TACTILE (▶▶)					C60	1-163-989-11	CERAMIC CHIP	33000PF	10%	25V	
S654	1-554-303-21	SWITCH, TACTILE (◀◀)					C61	1-126-301-11	ELECT	1.0uF	20%	50V	
S655	1-554-303-21	SWITCH, TACTILE (■)					C62	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
							C63	1-163-139-00	CERAMIC CHIP	820PF	5%	50V	
S656	1-554-303-21	SWITCH, TACTILE (■)					C65	1-126-967-11	ELECT	47uF	20%	16V	
S657	1-554-303-21	SWITCH, TACTILE (● REC)					C66	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
S658	1-554-303-21	SWITCH, TACTILE (H SPEED DUB)					C67	1-126-162-11	ELECT	3.3uF	20%	50V	
S659	1-554-303-21	SWITCH, TACTILE (CD SYNC)					C68	1-163-031-11	CERAMIC	0.01uF		50V	

*	A-4303-588-A	TCB BOARD, COMPLETE (EE, CIS) *****					C69	1-126-967-11	ELECT	47uF	20%	16V	
							C71	1-162-306-11	CERAMIC	0.01uF	30%	16V	
		< CAPACITOR >					C72	1-126-967-11	ELECT	47uF	20%	16V	
							C73	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V		C74	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C2	1-126-967-11	ELECT	47uF	20%	16V								
C3	1-163-038-91	CERAMIC CHIP	0.1uF		25V		C1701	1-162-294-31	CERAMIC CHIP	1000PF	10%	50V	
C5	1-163-031-11	CERAMIC CHIP	0.01uF		50V		C1702	1-130-014-00	FILM	470PF	5%	50V	
C6	1-163-038-91	CERAMIC CHIP	0.1uF		25V		C1703	1-126-959-11	ELECT	0.47uF	20%	50V	
							C1704	1-126-959-11	ELECT	0.47uF	20%	50V	
C7	1-101-004-00	CERAMIC	0.01uF		50V		C1705	1-163-035-00	CERAMIC CHIP	0.047uF		50V	
C8	1-163-031-11	CERAMIC CHIP	0.01uF		50V								
C9	1-163-031-11	CERAMIC CHIP	0.01uF		50V		C1706	1-126-960-11	ELECT	1.0uF	20%	50V	
C10	1-162-306-11	CERAMIC CHIP	0.01uF	30%	16V		C1707	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	
C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V		C1710	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
							C1711	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C19	1-163-249-11	CERAMIC CHIP	82PF	5%	50V		C1712	1-130-736-11	FILM	0.01uF	5%	50V	
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V								
C22	1-163-031-11	CERAMIC CHIP	0.01uF		50V		C1713	1-130-736-11	FILM	0.01uF	5%	50V	
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V		C1714	1-126-960-11	ELECT	1.0uF	20%	50V	
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V		C1715	1-126-960-11	ELECT	1.0uF	20%	50V	
							C1716	1-126-960-11	ELECT	1.0uF	20%	50V	
C26	1-126-967-11	ELECT	47uF	20%	16V		C1719	1-126-967-11	ELECT	47uF	20%	16V	
C28	1-126-967-11	ELECT	47uF	20%	16V								
C29	1-162-306-11	CERAMIC	0.01uF	30%	16V		C1720	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C30	1-126-961-11	ELECT	2.2uF	20%	50V		C1723	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V		C1724	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
							C1725	1-126-967-11	ELECT	47uF	20%	16V	
							C1726	1-126-960-11	ELECT	1.0uF	20%	50V	

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C1727	1-126-960-11	ELECT	1.0uF	20%	50V	< COIL >					
C1728	1-126-966-11	ELECT	33uF	20%	16V	L3	1-410-521-11	MICRO INDUCTOR	100uH		
< FILTER >						L41	1-407-500-00	MICRO INDUCTOR	4.7mH		
CF1	1-567-389-11	FILTER, CERAMIC				L1701	1-409-497-11	COIL (FILTER)			
CF3	1-567-389-11	FILTER, CERAMIC				< FILTER >					
< CONNECTOR >						LPF41	1-239-845-11	FILTER, LOW PASS			
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P				LPF42	1-239-845-11	FILTER, LOW PASS			
< TRIMMER >						< TRANSISTOR >					
CT1701	1-141-444-11	CAP, CERAMIC TRIMMER 50PF				Q1	8-729-201-27	TRANSISTOR 2SC2715Y			
CT1701	1-141-569-11	CAP, ADJ 50PF				Q2	8-729-201-27	TRANSISTOR 2SC2715Y			
< DIODE >						Q3	8-729-201-27	TRANSISTOR 2SC2715Y			
D21	8-719-976-99	DIODE DTZ5.1B				Q4	8-729-201-27	TRANSISTOR 2SC2715Y			
D41	8-719-016-74	DIODE 1SS352				Q5	8-729-216-22	TRANSISTOR MUN2111			
D42	8-719-016-74	DIODE 1SS352				Q9	8-729-216-22	TRANSISTOR 2SA812-M5M6			
D43	8-719-016-74	DIODE 1SS352				Q11	8-729-421-22	TRANSISTOR MUN2211			
D1701	8-719-016-74	DIODE 1SS352				Q12	8-729-421-22	TRANSISTOR MUN2211			
D1702	8-719-016-74	DIODE 1SS352				Q13	8-729-421-22	TRANSISTOR MUN2211			
D1703	8-719-991-33	DIODE 1SS133T				Q14	8-729-421-22	TRANSISTOR MUN2211			
D1704	8-719-016-74	DIODE 1SS352				Q1701	8-729-424-08	TRANSISTOR MUN2111			
< FRONTEND >						Q1702	8-729-027-43	TRANSISTOR RT1N141C			
FE1	1-693-335-11	FRONT END (3 GANG)				Q1703	8-729-421-22	TRANSISTOR MUN2211			
FE2	1-233-514-11	ENCAPSULATED COMPONENT				< RESISTOR >					
< IC >						R1	1-249-401-11	CARBON	47	5%	1/4W F
IC21	8-759-288-54	IC LC72130				R2	1-216-037-00	METAL CHIP	330	5%	1/10W
IC41	8-759-495-82	IC LA1838				R3	1-216-037-00	METAL CHIP	330	5%	1/10W
IC1701	8-759-063-04	IC IR3R42				R5	1-216-037-00	METAL CHIP	330	5%	1/10W
IC1702	8-759-140-53	IC uPD4053BC				R6	1-216-081-00	METAL CHIP	22K	5%	1/10W
< IFT >						R7	1-216-037-00	METAL CHIP	330	5%	1/10W
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)				R8	1-216-037-00	METAL CHIP	330	5%	1/10W
< JUMPER RESISTOR >						R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
JR2	1-216-295-91	METAL CHIP	0	5%	1/10W	R10	1-216-037-00	METAL CHIP	330	5%	1/10W
JR6	1-216-295-91	METAL CHIP	0	5%	1/10W	R11	1-216-081-00	METAL CHIP	22K	5%	1/10W
JR8	1-216-295-91	METAL CHIP	0	5%	1/10W	R12	1-216-037-00	METAL CHIP	330	5%	1/10W
JR9	1-216-295-91	METAL CHIP	0	5%	1/10W	R13	1-216-037-00	METAL CHIP	330	5%	1/10W
JR12	1-216-296-91	METAL CHIP	0	5%	1/8W	R14	1-216-081-00	METAL CHIP	22K	5%	1/10W
JR46	1-216-296-91	METAL CHIP	0	5%	1/8W	R18	1-216-073-00	METAL CHIP	10K	5%	1/10W
JR47	1-216-295-91	METAL CHIP	0	5%	1/10W	R19	1-216-073-00	METAL CHIP	10K	5%	1/10W
JR48	1-216-295-91	METAL CHIP	0	5%	1/10W	R21	1-249-417-11	CARBON	1.0K	5%	1/4W
JR49	1-216-296-91	METAL CHIP	0	5%	1/8W	R22	1-249-417-11	CARBON	1.0K	5%	1/4W
JR51	1-216-295-91	METAL CHIP	0	5%	1/10W	R23	1-249-417-11	CARBON	1.0K	5%	1/4W
JR52	1-216-295-91	METAL CHIP	0	5%	1/10W	R24	1-247-807-31	CARBON	100	5%	1/4W
JR53	1-216-296-91	METAL CHIP	0	5%	1/8W	R25	1-249-417-11	CARBON	1.0K	5%	1/4W F
JR54	1-216-295-91	METAL CHIP	0	5%	1/10W	R26	1-249-437-11	CARBON	47K	5%	1/4W
JR1701	1-216-295-91	METAL CHIP	0	5%	1/10W	R27	1-249-429-11	CARBON	10K	5%	1/4W
JR1702	1-216-295-91	METAL CHIP	0	5%	1/10W	R28	1-249-425-11	CARBON	1.0K	5%	1/4W F
JR1703	1-216-295-91	METAL CHIP	0	5%	1/10W	R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
JR1704	1-216-295-91	METAL CHIP	0	5%	1/10W	R30	1-216-186-00	METAL CHIP	330	5%	1/8W
JR1705	1-216-295-91	METAL CHIP	0	5%	1/10W	R31	1-216-025-91	METAL CHIP	100	5%	1/10W
						R32	1-249-425-11	CARBON	4.7K	5%	1/4W F
						R33	1-249-425-11	CARBON	4.7K	5%	1/4W F
						R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
						R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R36	1-216-025-91	METAL CHIP	100	5%	1/10W			< VIBRATOR >			
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W	X21	1-760-549-31	VIBRATOR, CRYSTAL (4.5MHz)			
R39	1-249-429-11	CARBON	10K	5%	1/4W	X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)			
R41	1-216-013-00	METAL CHIP	33	5%	1/10W	X41	1-767-825-21	FILTER, CERAMIC (10.7MHz)			
						X42	1-527-981-00	FILTER, CERAMIC (450kHz)			
R42	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	*****					
R43	1-216-037-00	METAL CHIP	330	5%	1/10W						
R44	1-216-001-00	METAL CHIP	10	5%	1/10W	*	A-4303-590-A	TCB BOARD, COMPLETE (AEP, UK)			
R45	1-247-843-11	CARBON	3.3K	5%	1/4W			*****			
R46	1-216-065-00	METAL CHIP	4.7K	5%	1/10W						
								< CAPACITOR >			
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W						
R48	1-249-417-11	CARBON	1.0K	5%	1/4W	C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	C2	1-126-967-11	ELECT	47uF	20%	16V
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	C3	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	C5	1-163-031-11	CERAMIC CHIP	0.01uF		50V
						C6	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R52	1-216-061-00	METAL CHIP	3.3K	5%	1/10W						
R53	1-216-061-00	METAL CHIP	3.3K	5%	1/4W	C8	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W	C9	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R55	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	C10	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R57	1-216-162-00	METAL CHIP	33	5%	1/8W	C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V
						C19	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
R58	1-216-013-00	METAL CHIP	33	5%	1/10W						
R91	1-216-295-91	METAL CHIP	0	5%	1/10W	C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W	C22	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R1701	1-216-081-00	METAL CHIP	22K	5%	1/10W	C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
R1702	1-216-085-00	METAL CHIP	33K	5%	1/10W	C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
						C26	1-126-967-11	ELECT	47uF	20%	16V
R1703	1-216-069-00	METAL CHIP	6.8K	5%	1/10W						
R1704	1-216-076-00	METAL CHIP	13K	5%	1/10W	C28	1-126-967-11	ELECT	47uF	20%	16V
R1705	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	C29	1-162-306-11	CERAMIC	0.01uF	30%	16V
R1706	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	C30	1-126-961-11	ELECT	2.2uF	20%	50V
R1707	1-216-097-91	METAL CHIP	100K	5%	1/10W	C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V
						C32	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R1708	1-216-095-00	METAL CHIP	82K	5%	1/10W						
R1709	1-216-089-91	METAL CHIP	47K	5%	1/10W	C33	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R1710	1-216-073-00	METAL CHIP	10K	5%	1/10W	C34	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
R1711	1-249-429-11	CARBON	10K	5%	1/4W	C35	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R1714	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
						C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
R1715	1-216-067-00	METAL CHIP	5.6K	5%	1/10W						
R1716	1-216-097-91	METAL CHIP	100K	5%	1/10W	C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
R1717	1-216-097-91	METAL CHIP	100K	5%	1/10W	C40	1-126-967-11	ELECT	47uF	20%	16V
R1718	1-249-429-11	CARBON	10K	5%	1/4W	C41	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R1719	1-216-097-91	METAL CHIP	100K	5%	1/10W	C42	1-163-038-91	CERAMIC CHIP	0.1uF		25V
						C43	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R1720	1-249-434-11	CARBON	27K	5%	1/4W						
R1721	1-216-073-00	METAL CHIP	10K	5%	1/10W	C44	1-163-038-91	CERAMIC CHIP	0.1uF		25V
		< VARIABLE RESISTOR >				C45	1-163-077-00	CERAMIC CHIP	0.1uF		50V
						C46	1-126-967-11	ELECT	47uF	20%	16V
RV41	1-238-600-11	RES, ADJ, CARBON 10K				C47	1-126-301-11	ELECT	1.0uF	20%	50V
RV42	1-238-599-11	RES, ADJ, CARBON 4.7K				C48	1-163-059-00	CERAMIC CHIP	0.01uF		50V
RV1701	1-238-600-11	RES, ADJ, CARBON 10K				C49	1-126-964-11	ELECT	10uF	20%	50V
RV1702	1-238-599-11	RES, ADJ, CARBON 4.7K				C50	1-126-960-11	ELECT	1.0uF	20%	50V
		< TERMINAL >				C51	1-126-959-11	ELECT	0.47uF	20%	50V
						C52	1-126-960-11	ELECT	1.0uF	20%	50V
TM1	1-537-488-11	TERMINAL BOARD (ANT) (ANTENNA)				C53	1-126-964-11	ELECT	10uF	20%	50V
		< TEST PIN>				C54	1-104-396-11	ELECT	10uF	20%	16V
						C55	1-104-396-11	ELECT	10uF	20%	16V
TP1701	1-536-354-00	PIN, POST				C56	1-104-396-11	ELECT	10uF	20%	16V
TP1702	1-536-354-00	PIN, POST				C57	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
						C58	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V

Ref. No.	Part No.	Description	Remarks
C59	1-163-809-11	CERAMIC CHIP 0.047uF 10%	25V
C60	1-163-809-11	CERAMIC CHIP 0.047uF 10%	25V
C61	1-126-301-11	ELECT 1uF 20%	50V
C62	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C63	1-163-129-00	CERAMIC CHIP 330PF 5%	50V
C65	1-126-967-11	ELECT 47uF 20%	16V
C66	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C67	1-126-16211	ELECT 3.3uF 20%	50V
C68	1-163-031-11	CERAMIC 0.01uF	50V
C69	1-126-967-11	ELECT 47uF 20%	16V
C71	1-162-306-11	CERAMIC 0.01uF 30%	16V
C72	1-126-967-11	ELECT 47uF 20%	16V
C73	1-163-031-11	CERAMIC 0.01uF	50V
C74	1-163-031-11	CERAMIC 0.01uF	50V
C120	1-163-105-00	CERAMIC CHIP 33PF 5%	50V
C1751	1-164-159-21	CERAMIC 0.1uF	50V
C1752	1-126-967-11	ELECT 47uF 20%	16V
C1753	1-126-964-11	ELECT 10uF 20%	50V
C1754	1-162-291-31	CERAMIC 560PF 10%	50V
C1755	1-126-964-11	ELECT 10uF 20%	50V
C1756	1-126-961-11	ELECT 2.2uF 20%	50V
C1757	1-162-288-31	CERAMIC 330PF 10%	50V
C1758	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C1759	1-163-135-00	CERAMIC CHIP 560PF 5%	50V
C1760	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C1761	1-163-245-11	CERAMIC CHIP 56PF 5%	50V
C1762	1-163-245-11	CERAMIC CHIP 56PF 5%	50V
C1763	1-126-961-11	ELECT 2.2uF 20%	50V
< FILTER >			
CF1	1-579-374-71	FILTER, CERAMIC	
CF2	1-760-393-11	FILTER, CERAMIC	
CF3	1-760-393-11	FILTER, CERAMIC	
< CONNECTOR >			
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P	
< DIODE >			
D21	8-719-976-99	DIODE UDZ-TE-17-5.1B	
D41	8-719-016-74	DIODE 1SS352-TPH3	
D42	8-719-991-33	DIODE 1SS133T-77	
D1751	8-719-016-74	DIODE 1SS352-TPH3	
< FRONT-END >			
FE1	1-693-357-11	FRONT END (4 GANG)	
FE2	1-233-514-11	ENCAPSULATED COMPONENT	
< IC >			
IC21	8-759-288-54	IC LC72130	
IC41	8-759-495-82	IC LA1838	
IC1751	8-759-634-51	IC M5218AP	
IC1752	8-759-450-86	IC BU1922	
< IFT >			
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)	

Ref. No.	Part No.	Description	Remarks
< JUMPER RESISTOR >			
JR2	1-216-295-91	METAL CHIP 0 5%	1/10W
JR6	1-216-295-91	METAL CHIP 0 5%	1/10W
JR8	1-216-295-91	METAL CHIP 0 5%	1/10W
JR9	1-216-295-91	METAL CHIP 0 5%	1/10W
JR12	1-216-296-91	METAL CHIP 0 5%	1/8W
JR46	1-216-296-91	METAL CHIP 0 5%	1/8W
JR47	1-216-295-11	METAL CHIP 0 5%	1/10W
JR48	1-216-295-11	METAL CHIP 0 5%	1/10W
JR49	1-216-296-11	METAL CHIP 0 5%	1/8W
JR51	1-216-295-11	METAL CHIP 0 5%	1/10W
JR52	1-216-295-11	METAL CHIP 0 5%	1/10W
JR53	1-216-296-11	METAL CHIP 0 5%	1/8W
JR54	1-216-295-11	METAL CHIP 0 5%	1/10W
< COIL >			
L2	1-414-142-11	MICRO INDUCTOR	1uH
L3	1-410-521-11	MICRO INDUCTOR	100uH
L4	1-410-515-11	INDUCTOR	33uH
L41	1-407-500-00	MICRO INDUCTOR	4.7mH
L1751	1-410-521-11	MICRO INDUCTOR	100uH
< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS	
LPF42	1-239-845-11	FILTER, LOW PASS	
< TRANSISTOR >			
Q1	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q2	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q3	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q4	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q5	8-729-424-08	TRANSISTOR MUN2111	
Q9	8-729-216-22	TRANSISTOR 2SA812-M5M6	
Q11	8-729-421-22	TRANSISTOR MUN2211	
Q12	8-729-421-22	TRANSISTOR MUN2211	
Q13	8-729-421-22	TRANSISTOR MUN2211	
Q14	8-729-421-22	TRANSISTOR MUN2211	
< RESISTOR >			
R1	1-249-401-11	CARBON 47 5%	1/4W F
R2	1-216-037-00	METAL CHIP 330 5%	1/10W
R3	1-216-037-00	METAL CHIP 330 5%	1/10W
R5	1-216-037-00	METAL CHIP 330 5%	1/10W
R6	1-216-081-00	METAL CHIP 22K 5%	1/10W
R7	1-216-037-00	METAL CHIP 330 5%	1/10W
R8	1-216-037-00	METAL CHIP 330 5%	1/10W
R9	1-216-081-00	METAL CHIP 22K 5%	1/10W
R10	1-216-037-00	METAL CHIP 330 5%	1/10W
R11	1-216-081-00	METAL CHIP 22K 5%	1/10W
R12	1-216-037-00	METAL CHIP 330 5%	1/10W
R13	1-216-037-00	METAL CHIP 330 5%	1/10W
R14	1-216-081-00	METAL CHIP 22K 5%	1/10W
R18	1-216-073-00	METAL CHIP 10K 5%	1/10W
R19	1-216-073-00	METAL CHIP 10K 5%	1/10W
R21	1-216-049-91	METAL CHIP 1.0K 5%	1/10W
R22	1-216-049-91	METAL CHIP 1.0K 5%	1/10W
R23	1-216-049-91	METAL CHIP 1.0K 5%	1/10W
R24	1-216-025-91	METAL CHIP 100 5%	1/10W
R25	1-249-417-11	CARBON 1K 5%	1/4W F

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R26	1-249-437-11	CARBON	47K 5% 1/4W		1-664-014-11	TRANS BOARD	
R27	1-249-429-11	CARBON	10K 5% 1/4W			*****	
R28	1-249-417-11	CARBON	1K 5% 1/4W F			(D390: US/D790: US/G5500/XB50/XB60)	
R29	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	*	1-668-169-11	TRANS BOARD	
R30	1-216-186-00	METAL CHIP	330 5% 1/8W			*****	
						(D390: CND/D790: CND/XB33/XB44)	
R31	1-216-025-91	METAL CHIP	100 5% 1/10W		1-533-233-21	HOLDER, FUSE (EXCEPT XB33/XB44)	
R32	1-249-425-11	CARBON	4.7K 5% 1/4W F		1-533-399-11	HOLDER, FUSE (XB33/XB44)	
R33	1-249-425-11	CARBON	4.7K 5% 1/4W F		1-533-903-21	HOLDER, FUSE (EXCEPT XB33/XB44)	
R34	1-249-425-11	CARBON	4.7K 5% 1/10W			< CAPACITOR >	
R35	1-216-214-00	METAL CHIP	4.7K 5% 1/8W				
R36	1-216-025-91	METAL CHIP	100 5% 1/10W		C903	1-164-159-21 CERAMIC 0.1uF 50V	(XB50/XB60)
R37	1-216-073-00	METAL CHIP	10K 5% 1/10W			< CONNECTOR >	
R38	1-216-089-91	METAL CHIP	47K 5% 1/10W				
R39	1-249-429-11	CARBON	10K 5% 1/4W				
R41	1-216-013-00	METAL CHIP	33 5% 1/10W				
R42	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	* CN901	1-564-522-11	PLUG, CONNECTOR 7P	
R43	1-216-037-00	METAL CHIP	330 5% 1/10W		CN902	1-564-513-11	PLUG, CONNECTOR 10P (D390:CND)
R44	1-216-001-00	METAL CHIP	10 5% 1/10W	* CN902	1-564-518-11	PLUG, CONNECTOR 3P	
R45	1-247-843-11	CARBON	3.3K 5% 1/4W F			(D390: US/D790/G5500/XB33/XB44/XB50/XB60)	
R46	1-216-065-00	METAL CHIP	4.7K 5% 1/10W		CN903	1-535-139-00	BASE POST 14MM (10MM PITCH) 2P
						(XB33: E, MX/XB44: E, MX)	
R47	1-216-097-91	METAL CHIP	100K 5% 1/10W		CN903	1-774-108-11	PIN, CONNECTOR (PC BOARD)
R48	1-249-417-11	CARBON	1K 5% 1/4W F			(EXCEPT XB33: E, MX/XB44: E, MX)	
R49	1-216-049-91	METAL CHIP	1.0K 5% 1/10W			< CONNECTOR >	
R50	1-216-065-00	METAL CHIP	4.7K 5% 1/10W				
R51	1-216-065-00	METAL CHIP	4.7K 5% 1/10W				
				△ CNP901	1-558-943-51	CORD, POWER (E, MX)	
R52	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	△ CNP901	1-575-042-21	CORD, POWER (US, CND)	
R53	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	△ CNP901	1-575-651-21	CORD, POWER (AEP, EE, AR, CIS, SAF, UK)	
R54	1-216-073-00	METAL CHIP	10K 5% 1/10W	△ CNP901	1-696-845-11	CORD, POWER (AUS)	
R55	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	△ CNP901	1-769-744-91	CORD, POWER (XB50/XB60)	
R57	1-216-162-00	METAL CHIP	33 5% 1/8W			< FUSE >	
R58	1-216-013-00	METAL CHIP	33 5% 1/10W	△ F901	1-532-388-31	FUSE, TIME LAG (2A, 250V) (XB50)	
R91	1-216-295-91	METAL CHIP	0 5% 1/10W	△ F901	1-532-464-31	FUSE, TIME LAG (2.5A, 250V)	
R92	1-216-073-00	METAL CHIP	10K 5% 1/10W			(XB33: E, AR, SAF, AUS/XB44: E, AR, SAF, AUS/XB60)	
R1751	1-247-807-31	CARBON	100 5% 1/4W	△ F902	1-532-505-31	FUSE, TIME LAG (2.5A, 250V)	
R1752	1-216-073-00	METAL CHIP	10K 5% 1/10W			(XB33: E, AR, MX/XB44: E, AR, MX)	
R1753	1-216-067-00	METAL CHIP	5.6K 5% 1/10W	△ F902	1-533-310-11	FUSE, GLASS TUBE (6.3A 125V)	
R1754	1-216-097-91	METAL CHIP	100K 5% 1/10W			(D390: CND/D790: CND)	
R1755	1-216-097-91	METAL CHIP	100K 5% 1/10W	△ F902	1-533-420-11	FUSE, GLASS CYLINDRICAL(DIA.5)(5A,125V)	
R1756	1-249-401-11	CARBON	47 5% 1/4W F			(D390: US/D790: US/G5500)	
R1757	1-216-295-91	METAL CHIP	0 5% 1/10W				
						< RESISTOR >	
		< VARIABLE RESISTOR >					
				△ R901	1-219-119-81	FUSIBLE 0.1 5% 1/4W F	
RV41	1-238-600-11	RES, ADJ, CARBON 10K				(D390: CND/D790/XB33/XB44/XB60)	
RV42	1-238-600-11	RES, ADJ, CARBON 10K		△ R901	1-219-120-11	FUSIBLE 0.15 5% 1/4W F	
						(D390: US/G5500/XB50)	
		< TERMINAL >		△ R902	1-219-119-81	FUSIBLE 0.1 5% 1/4W F	
						(D390: CND/D790/XB33/XB44/XB60)	
TM1	1-537-488-11	TERMINAL BOARD (ANT) (ANTENNA)		△ R902	1-219-120-11	FUSIBLE 0.15 5% 1/4W F	
						(D390: US/G5500/XB50)	
		< VIBRATOR >		△ R903	1-219-119-81	FUSIBLE 0.1 5% 1/4W F	
				△ R904	1-219-119-81	FUSIBLE 0.1 5% 1/4W F	
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)		R907	1-202-725-00	SOLID 3.3M 10% 1/2W	
X41	1-767-825-21	FILTER, CERAMIC (10.7MHz)				(D390: US/D790: US/G5500)	
X42	1-527-981-00	FILTER, CERAMIC (450KHz)					
X1751	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)		R911	1-202-725-00	SOLID 3.3M 10% 1/2W	
						(D390: CND/D790: CND)	

Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
---	---

HCD-D390/D790/G5500/XB33/XB44/XB50/XB60

TRANS

Ref. No.	Part No.	Description	Remarks
		< SWITCH >	
S901	1-762-753-11	SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR) (XB33: E, AR/XB44: E, AR)	

		MISCELLANEOUS	

5	1-233-544-11	ENCAPSULATED COMPONENT (D390/D790/G5500)	
5	1-233-545-11	ENCAPSULATED COMPONENT (XB33/XB44)	
6	1-769-974-11	WIRE (FLAT TYPE) (13 CORE) (EXCEPT XB50/XB60)	
6	1-773-006-11	WIRE (FLAT TYPE) (15 CORE) (XB50/XB60)	
7	1-698-792-11	FAN, DC (XB44)	
58	1-773-161-11	WIRE (FLAT TYPE) (21 CORE)	
59	1-769-949-11	WIRE (FLAT TYPE) (11 CORE)	
120	1-773-051-11	WIRE (FLAT TYPE) (17 CORE)	
156	1-777-868-11	WIRE (FLAT TYPE) (19 CORE)	
△ 159	1-569-008-11	ADAPTOR, CONVERSION 2P (AR)	
△ 159	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
△ CNP901	1-558-943-51	CORD, POWER (E, MX)	
△ CNP901	1-575-042-21	CORD, POWER (US, CND)	
△ CNP901	1-575-651-21	CORD, POWER (AEP, EE, AR, CIS, SAF, UK)	
△ CNP901	1-696-845-11	CORD, POWER (AUS)	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK) (DECKA)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE) (DECK B)	
M1	X-3371-223-1	MOTOR ASSY, CAPSTAN	
M2	A-2004-410-A	MOTTOR ASSY, DC (TRIGGER)	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M201	A-4660-977-A	MOTOR ASSY (TABLE)	
△ T901	1-431-045-11	TRANSFORMER, POWER (D390: US/G5500)	
△ T901	1-431-046-11	TRANSFORMER, POWER (D790: US)	
△ T901	1-431-634-11	TRANSFORMER, POWER (XB50)	
△ T901	1-431-635-11	TRANSFORMER, POWER (XB33)	
△ T901	1-431-636-11	TRANSFORMER, POWER (XB60)	
△ T901	1-431-637-11	TRANSFORMER, POWER (XB44)	
△ T901	1-431-733-11	TRANSFORMER, POWER (D390: CND/D790: CND)	

Ref. No.	Part No.	Description	Remarks
		ACCESSORIES & PACKING MATERIALS	

1-475-115-11		COMMANDER, STANDARD (RM-SD70) (made in Indonesia: AEP)	
1-475-115-31		COMMANDER, STANDARD (RM-SD70) (made in Malaysia: AEP)	
1-501-374-11		ANTENNA, LOOP	
1-501-659-41		ANTENNA (FM)(EXCEPT XB50/XB60)	
1-501-804-11		ANTENNA (FM)(XB50/XB60)	
1-775-512-21		CODE, SPEAKER CONNECTION	
3-862-180-11		MANUAL, INSTRUCTION (made in Malaysia: except AEP) (ENGLISH)	
3-862-180-22		MANUAL, INSTRUCTION (Canadian) (FRENCE)	
3-862-180-31		MANUAL, INSTRUCTION (E, AR, MX) (FRENCE, SPANISH)	
3-862-180-51		MANUAL, INSTRUCTION (made in Malaysia: AEP) (GERMAN)	
3-862-180-61		MANUAL, INSTRUCTION (made in Malaysia: AEP) (DUTCH, SWEDISH, ITALIAN)	
3-862-180-71		MANUAL, INSTRUCTION (made in Malaysia: AEP) (FRENCE, SPANISH, PORTUGUESE)	
3-862-180-81		MANUAL, INSTRUCTION (EE, CIS) (RUSSIAN, POLISH)	
3-862-181-11		MANUAL, INSTRUCTION (made in Indonesia: AEP) (ENGLISH)	
3-862-181-21		MANUAL, INSTRUCTION (made in Indonesia: AEP) (FRENCH, SPANISH, PORTUGUESE)	
4-991-151-01		COVER, BATTERY (for RM-SD70)	

		HARDWARE LIST	

#1	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 N-S	
#2	7-685-871-01	SCREW +BVTT 3 × 6 (S)	
#3	7-685-872-09	SCREW +BVTT 3 × 8 (S)	
#4	7-685-650-79	SCREW +BVTP 3 × 16 TYPE2 N-S	
#5	7-685-862-09	SCREW +BVTT 2.6 × 6 (S)	
#6	7-685-131-19	SCREW +BTP 2.6 × 4 TYPE2 N-S	
#7	7-685-533-19	SCREW +BTP 2.6 × 6 TYPE2 N-S	
#8	7-621-775-10	SCREW +B 2.6 × 4	
#9	7-685-534-19	SCREW +BTP 2.6 × 8 TYPE2 N-S	
#10	7-623-921-01	RING, RETAINING, CAPSTAN	
#11	7-621-775-00	SCREW +B 2.6 × 3	
#12	7-621-255-15	SCREW +P 2 × 3	

Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
---	---